THE
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INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

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Photograph by courtesy of Tarmac Civil Engineering Ltd., taken on the site for the construction of a Reservoir and Dam at Bala, for the Liverpool Corporation. Consulting Engineers: Binney, Deacon & Gourley.

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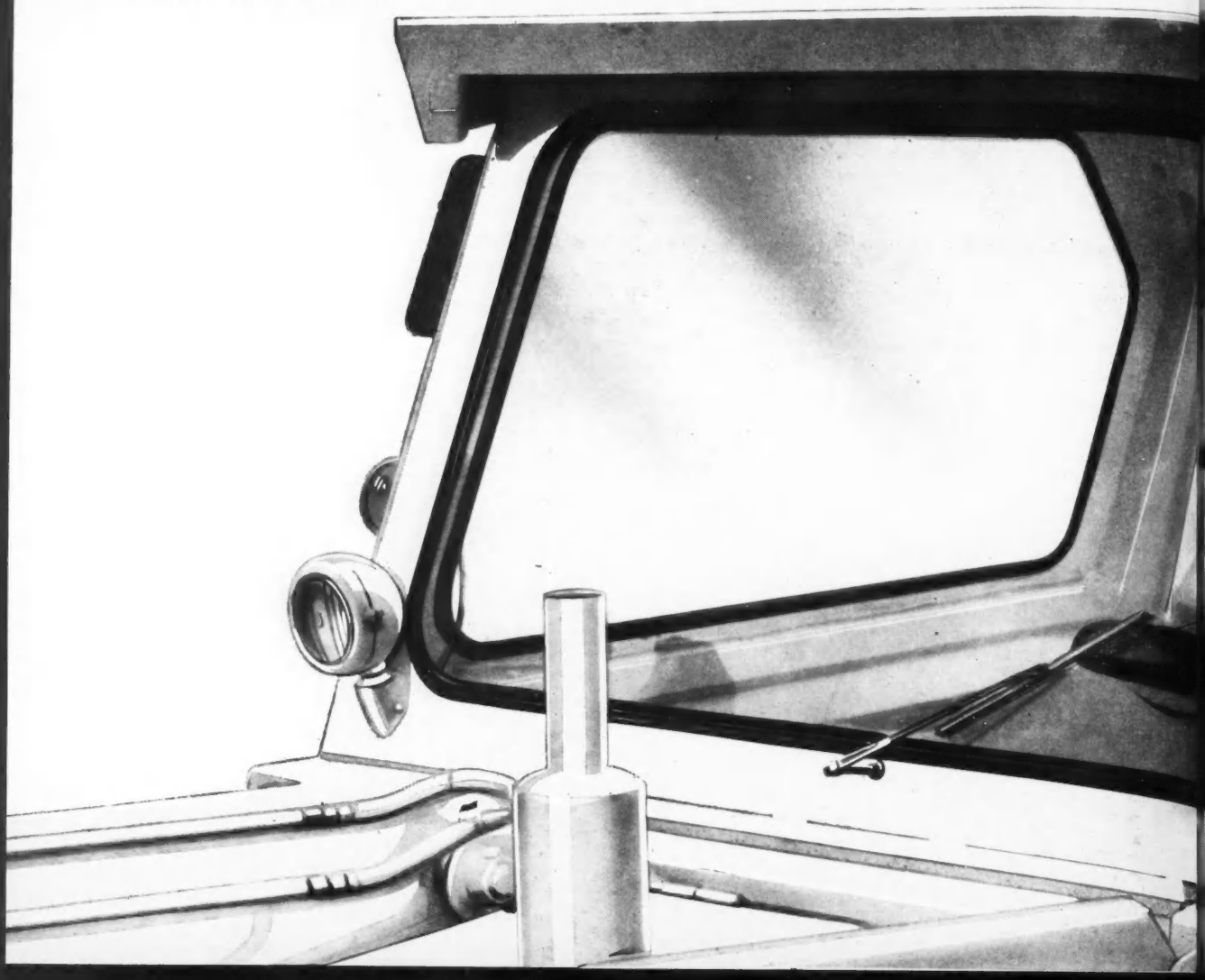

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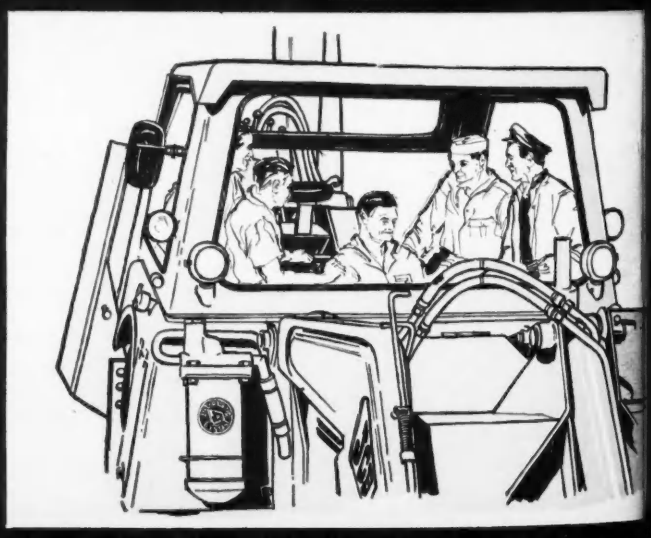

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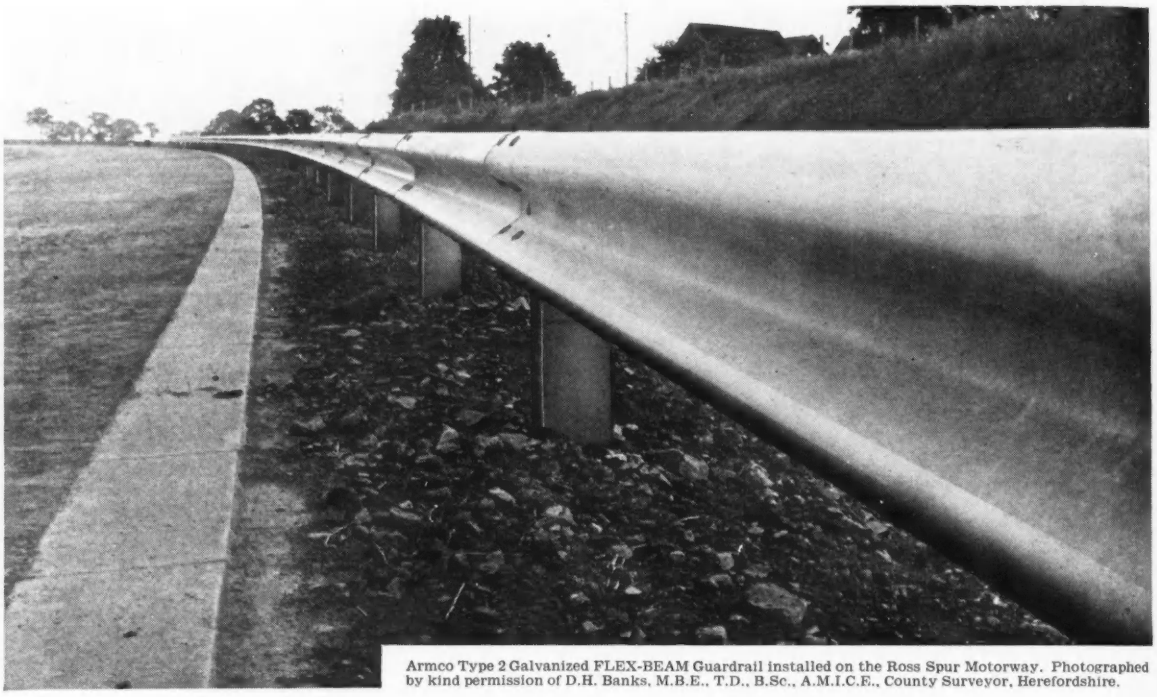

Armco Type 2 Galvanized FLEX-BEAM Guardrail installed on the Ross Spur Motorway. Photographed by kind permission of D.H. Banks, M.B.E., T.D., B.Sc., A.M.I.C.E., County Surveyor, Herefordshire.

Armco FLEX-BEAM* Guardrail Selected For Ross Spur Motorway

Armco FLEX-BEAM Steel Guardrail meets the demands of present day traffic control. It cushions and redirects out of control vehicles without causing sudden deceleration.

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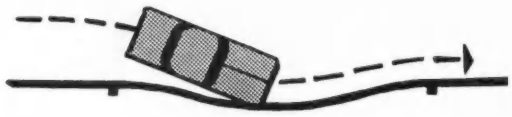

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* *Registered Trade Mark B 726870 Armco Galvanized FLEX-BEAM Guardrail Type 2 Registered Design 892965/6*

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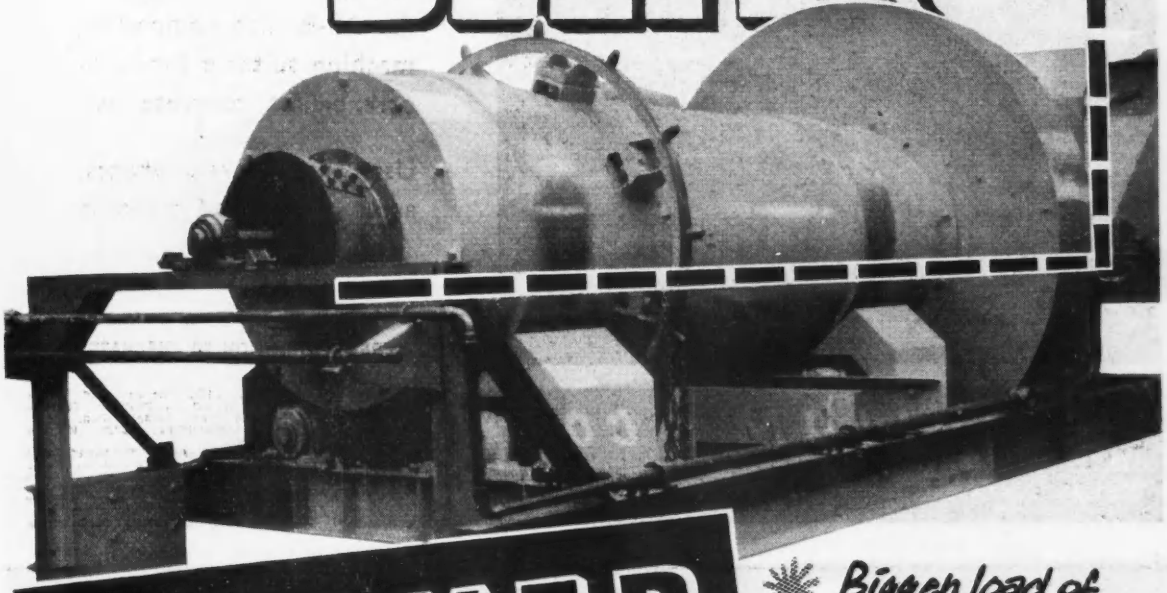

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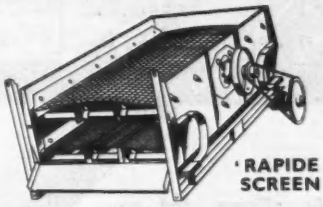
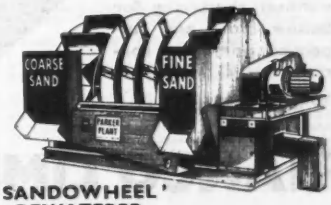
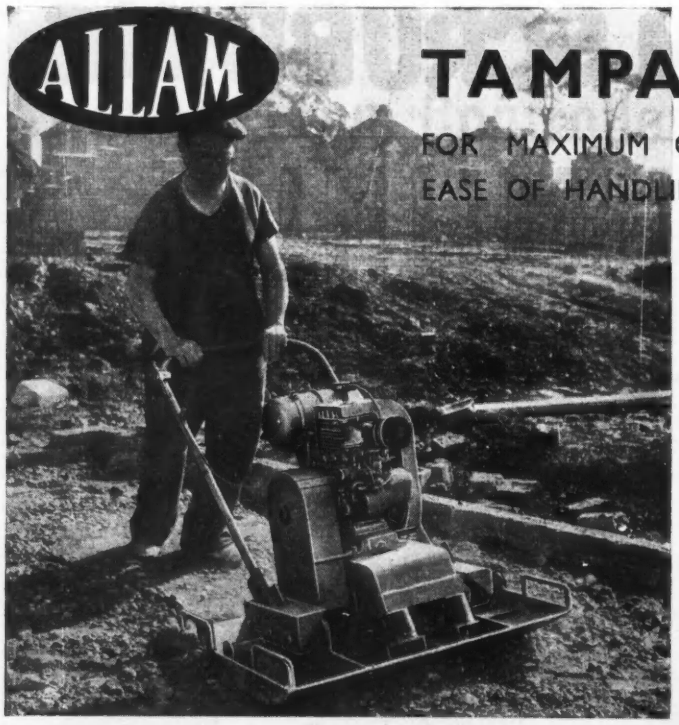


'RAPIDE' SCREEN



'SANDOWHEEL' DEWATERER



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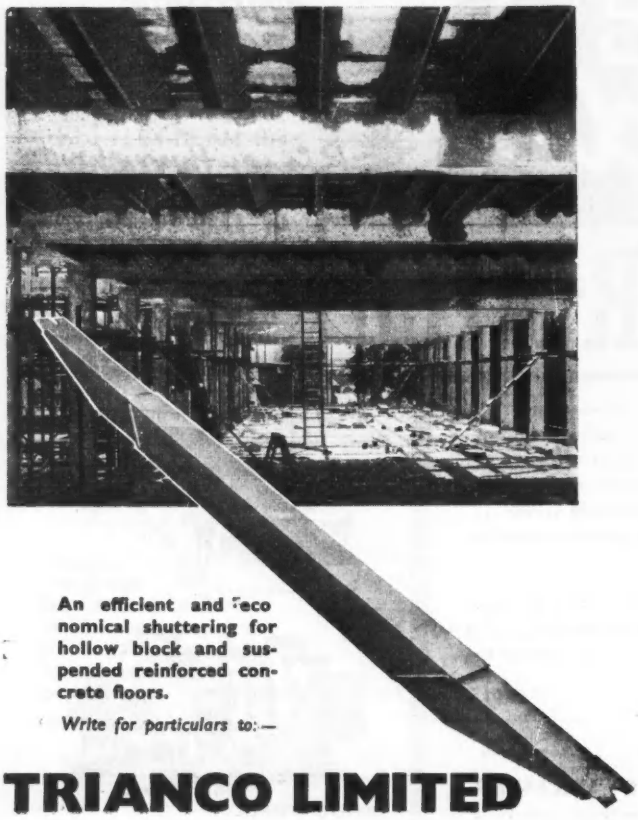

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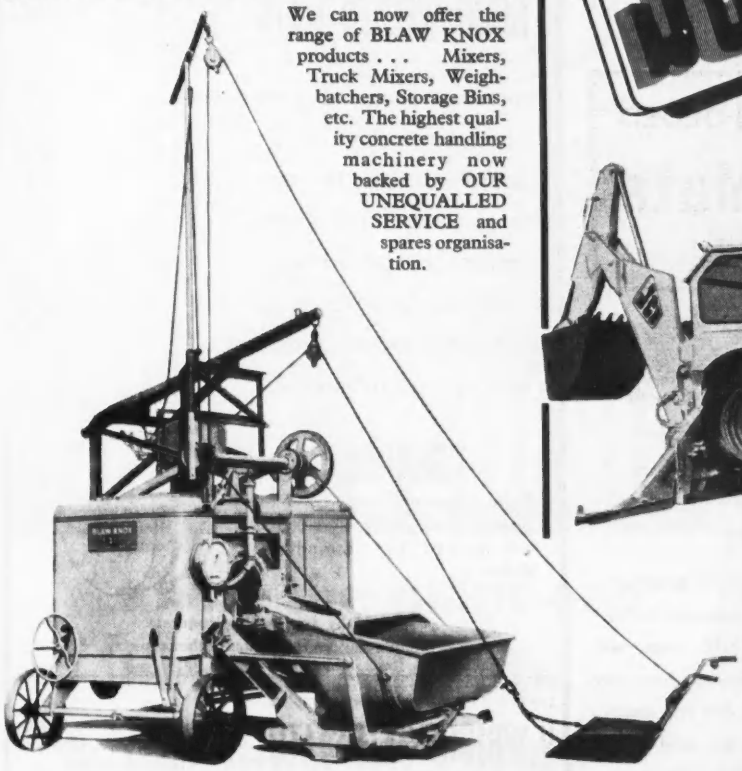

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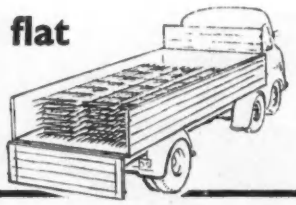

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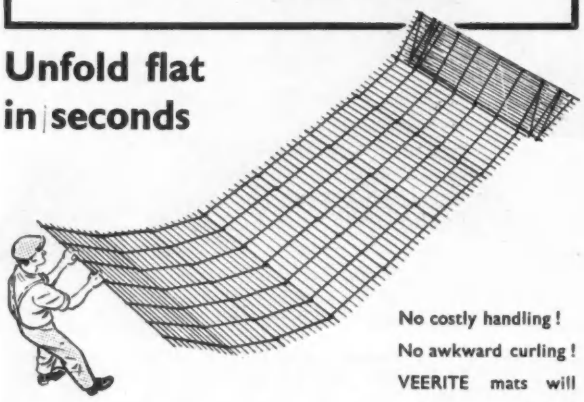

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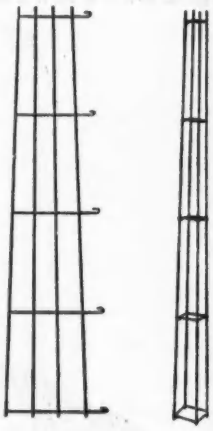

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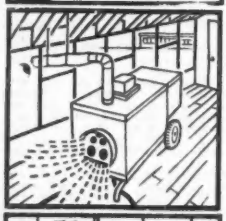
for Drying out

For drying out sand and aggregates.



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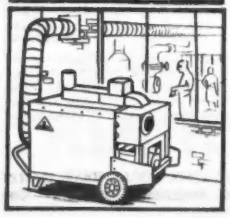

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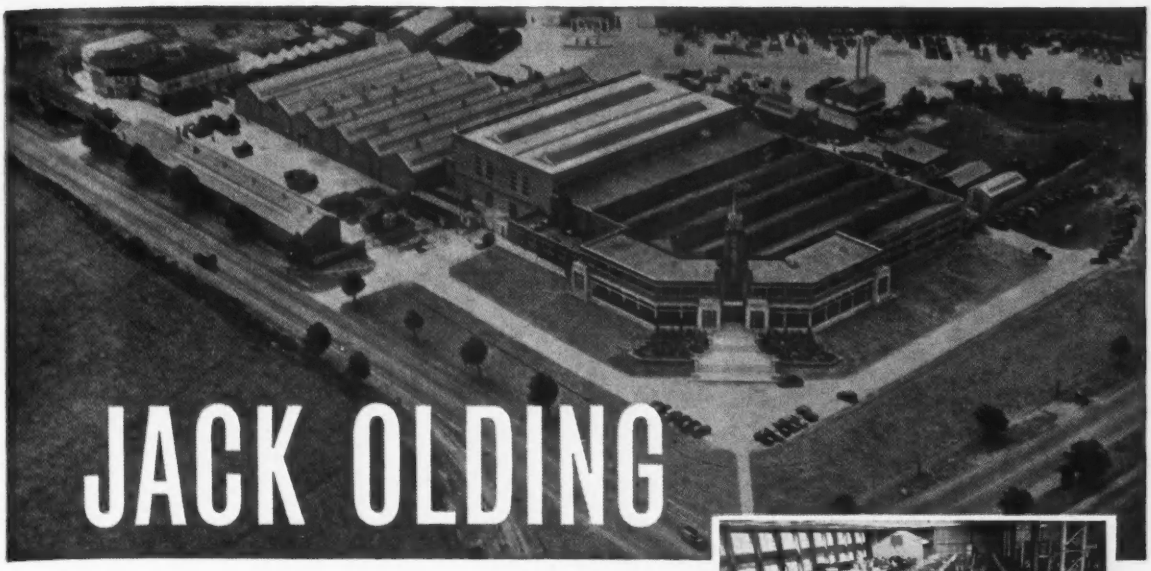

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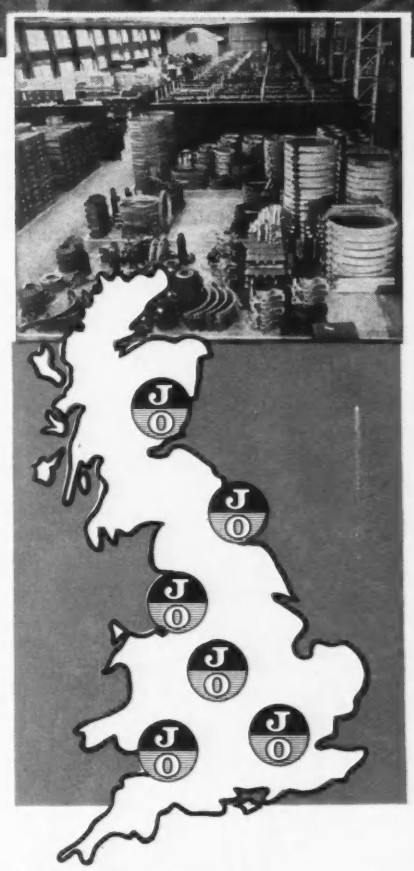

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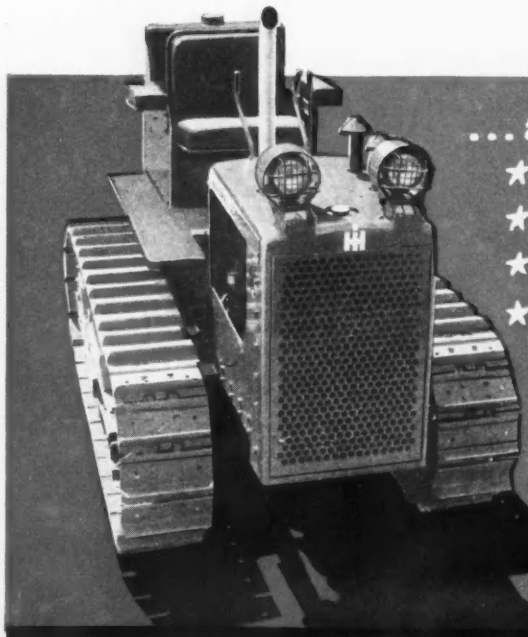

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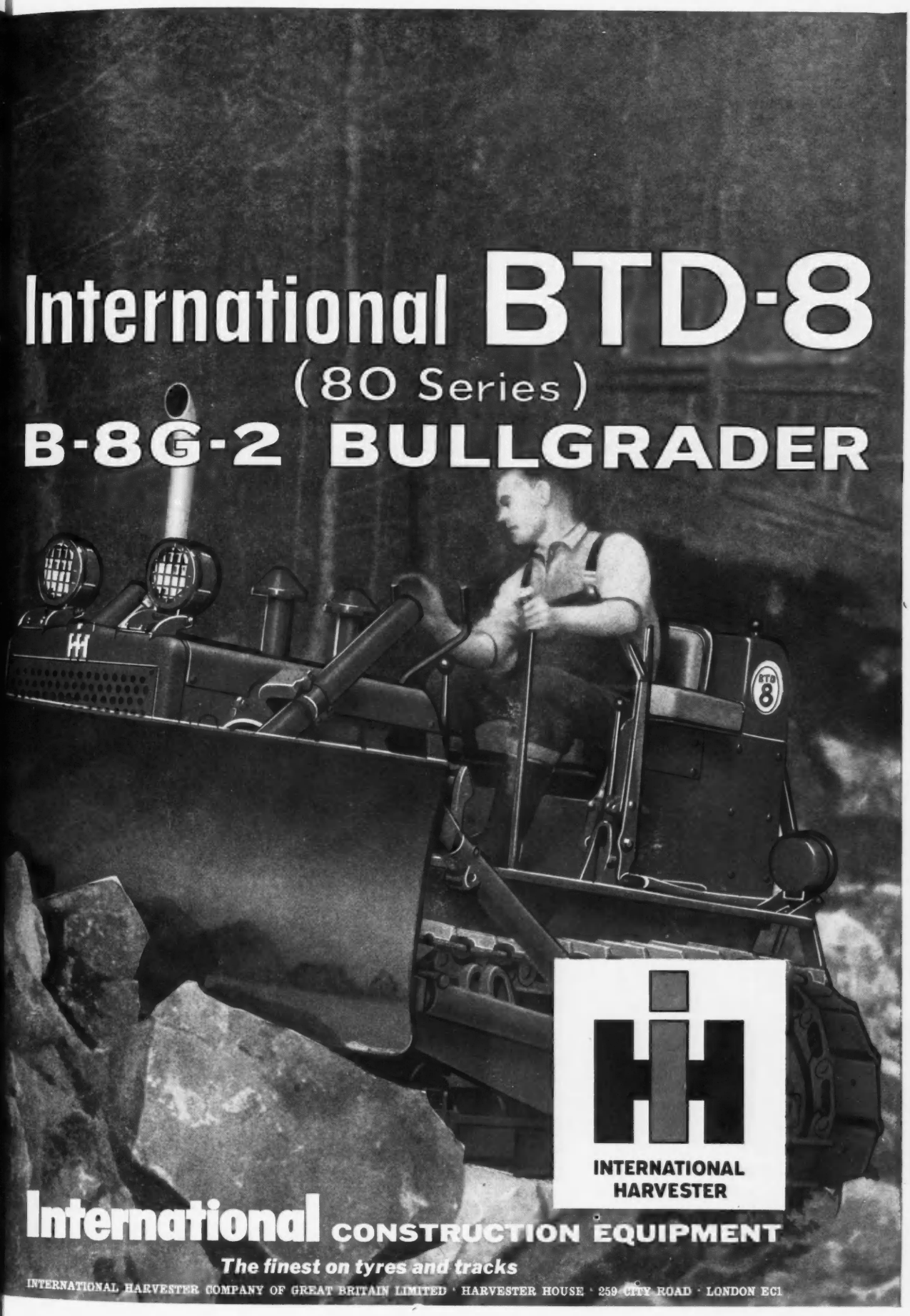
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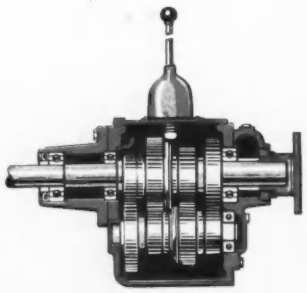

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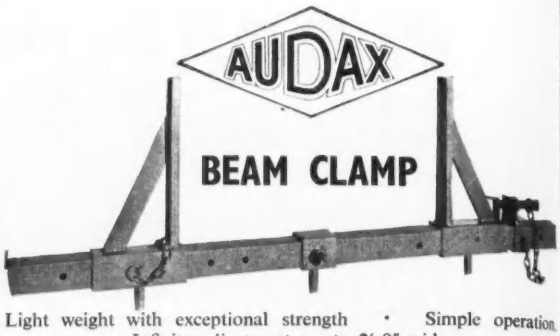

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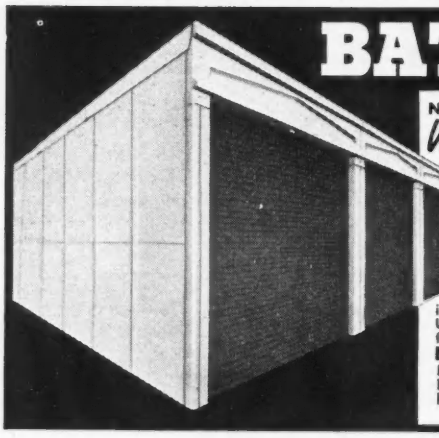

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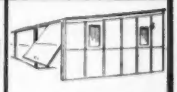

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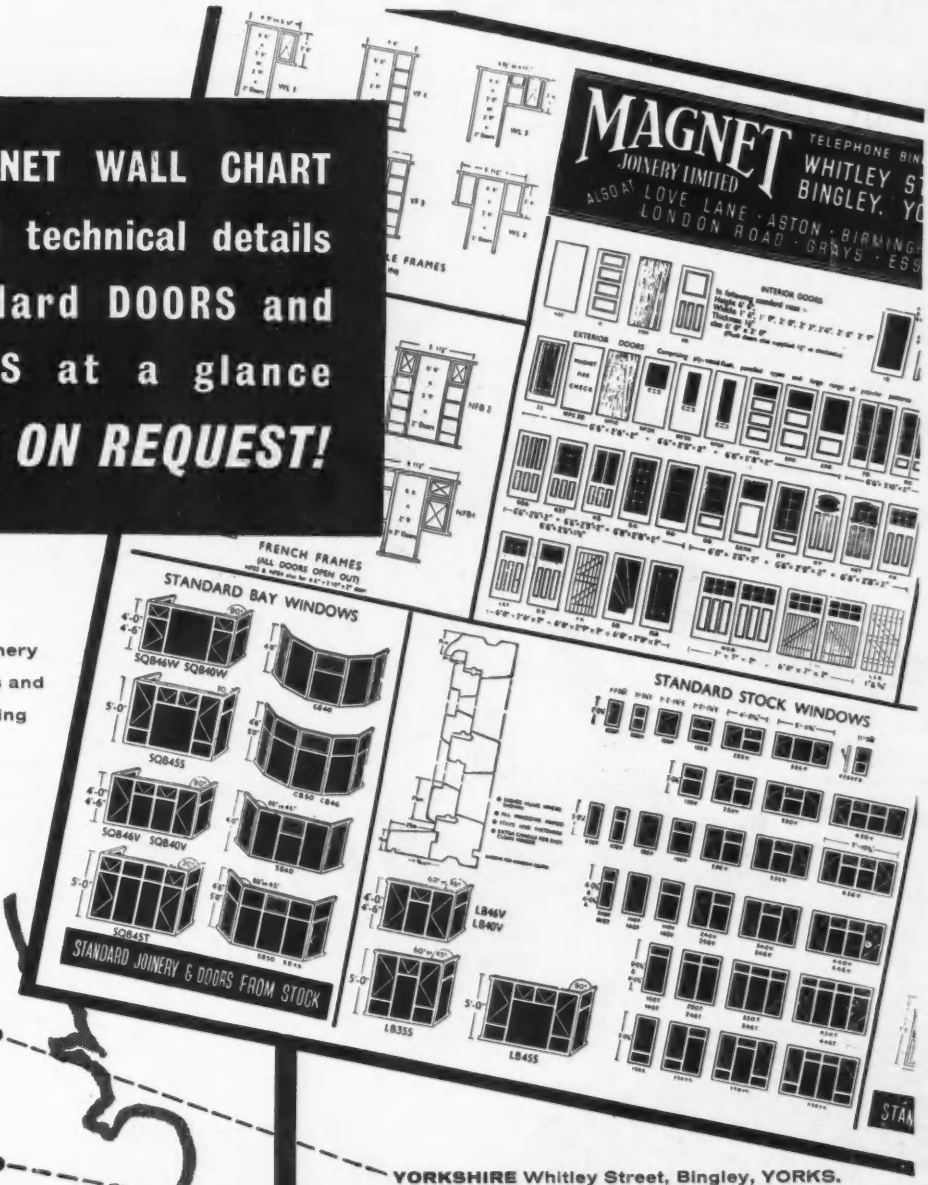

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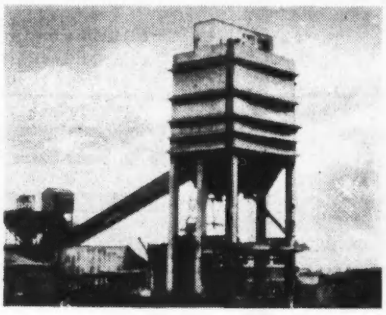

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To overcome anomalies which arise when Standard Forms of Contract unrelated to Demolition projects are considered, the Federation has issued a form of Contract specifically drawn for Demolition work, likewise a schedule of day work charges. In addition the Working Rule Agreement with the N.F.B.T.O. has been reviewed and brought up to date. Copies of all documents are available on application to the Secretary.

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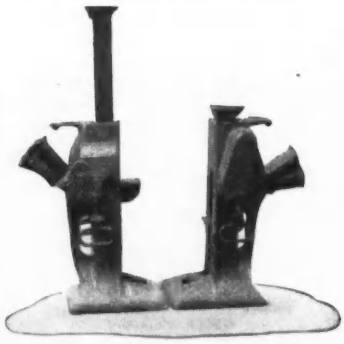

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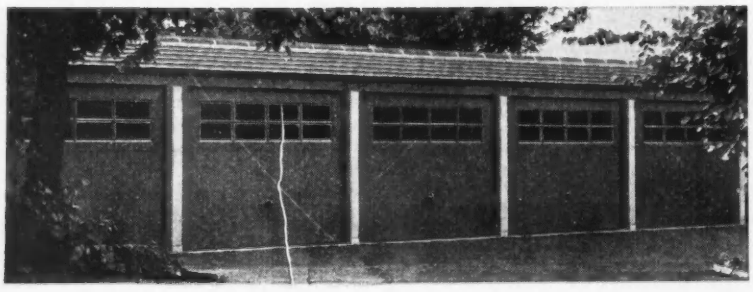

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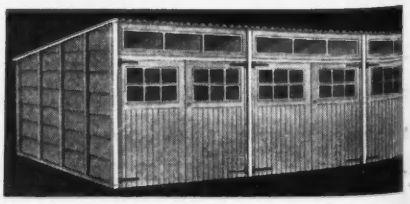

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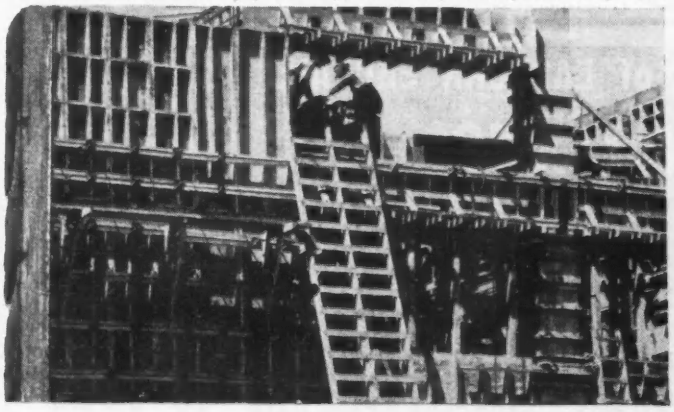

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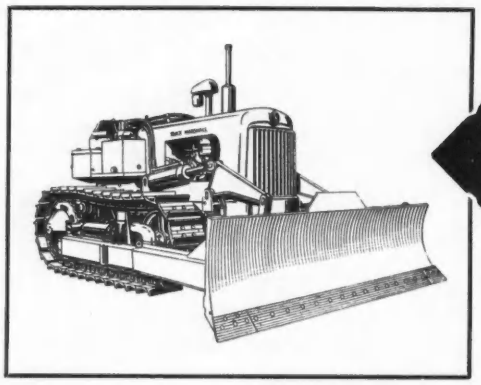

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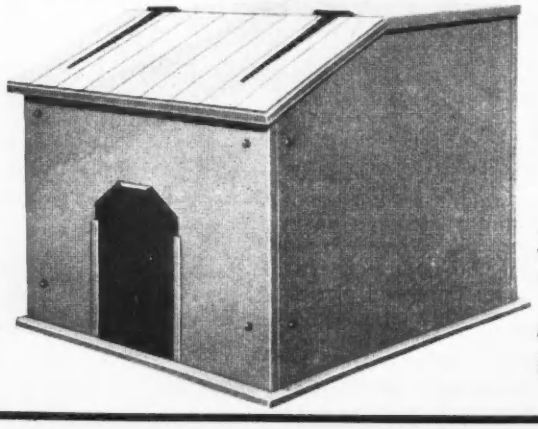

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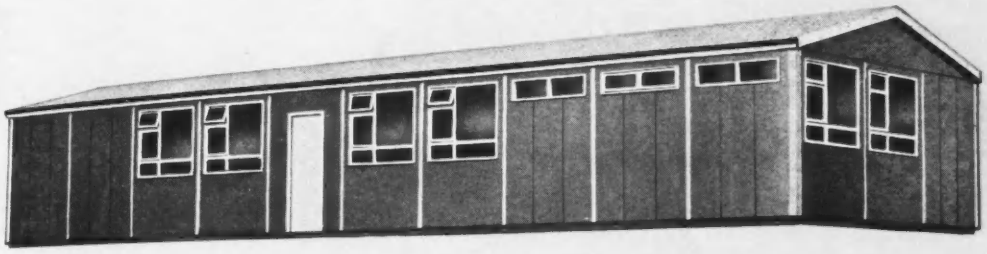

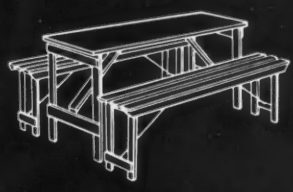

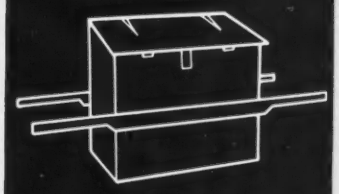

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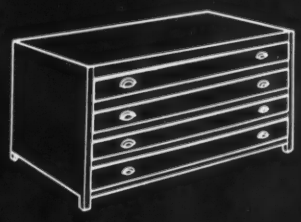

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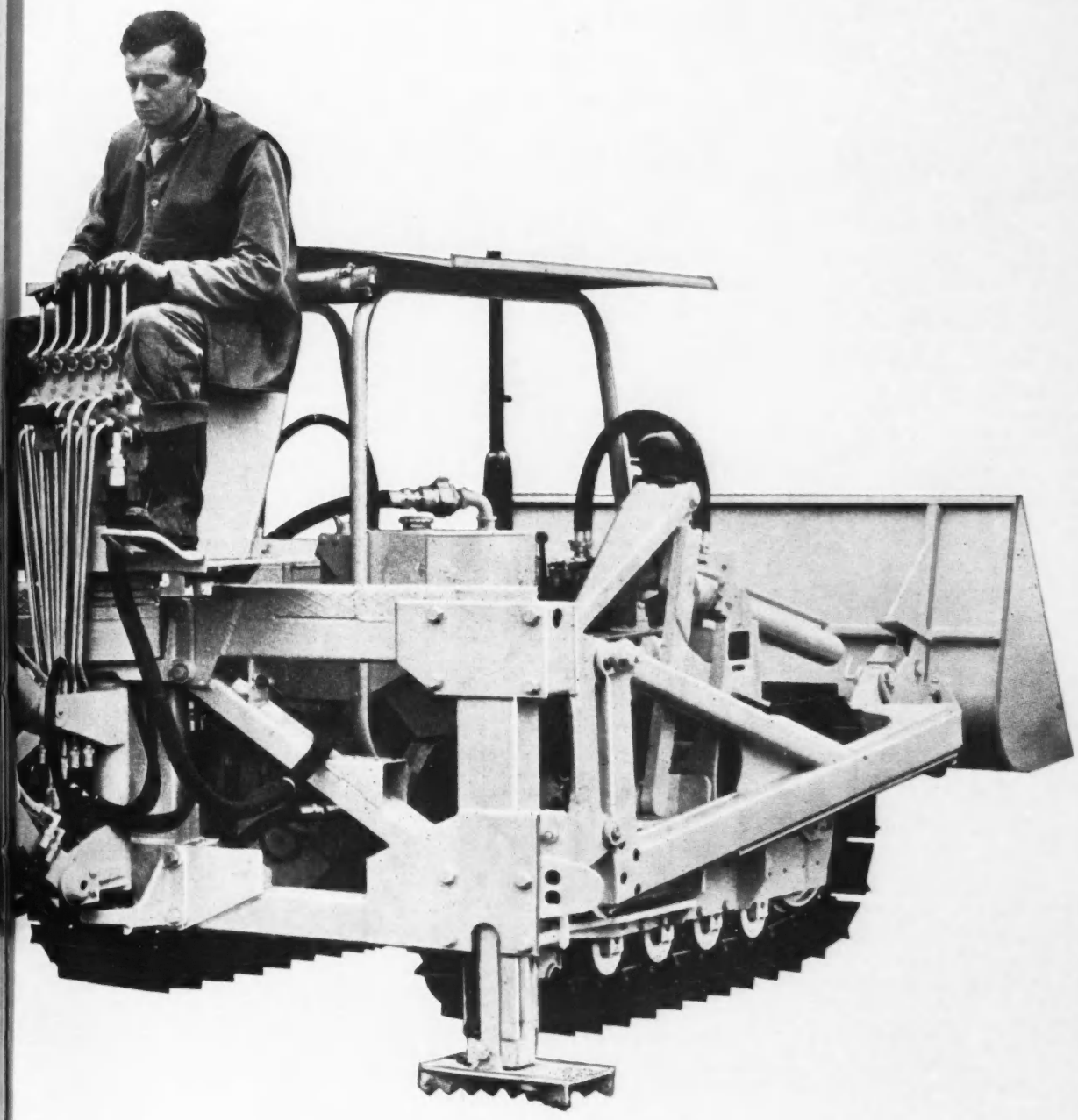

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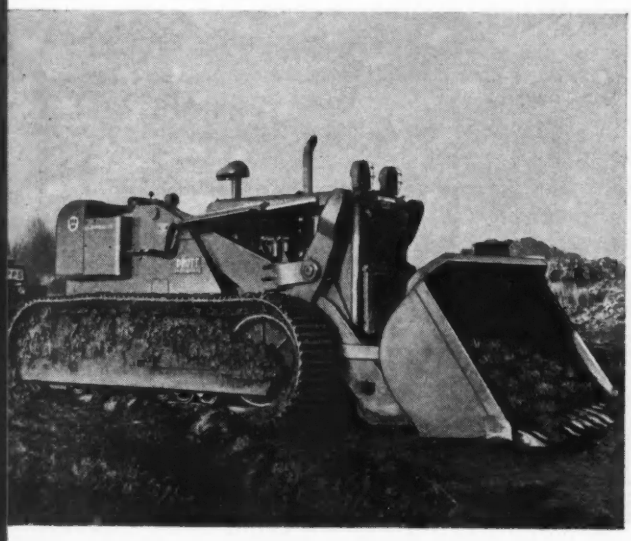

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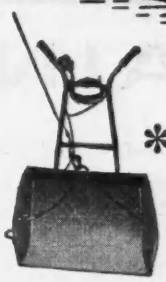

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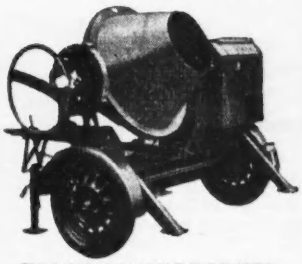

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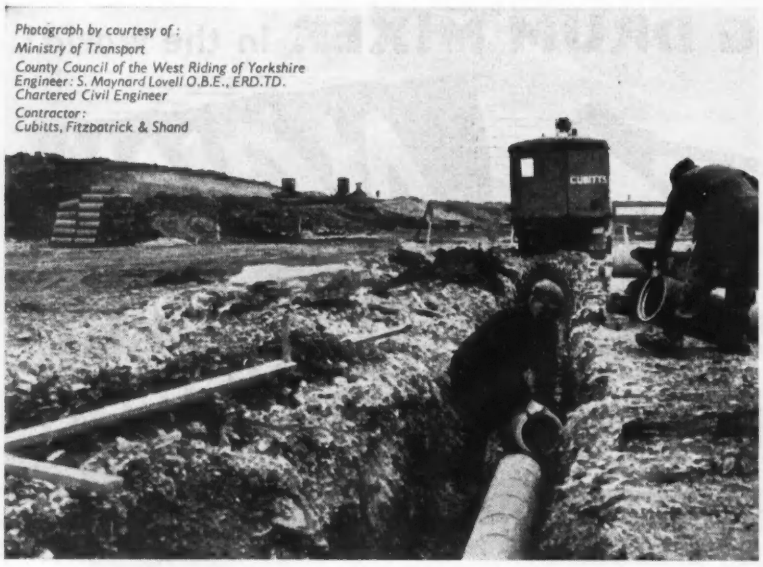

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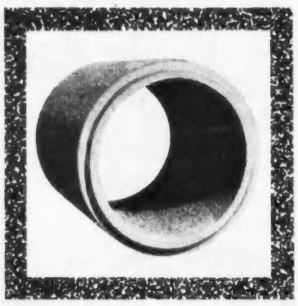

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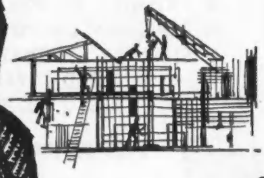

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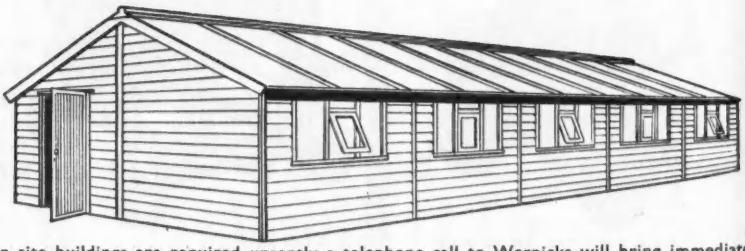

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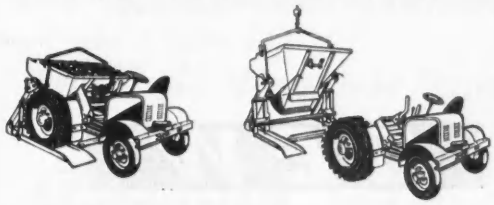

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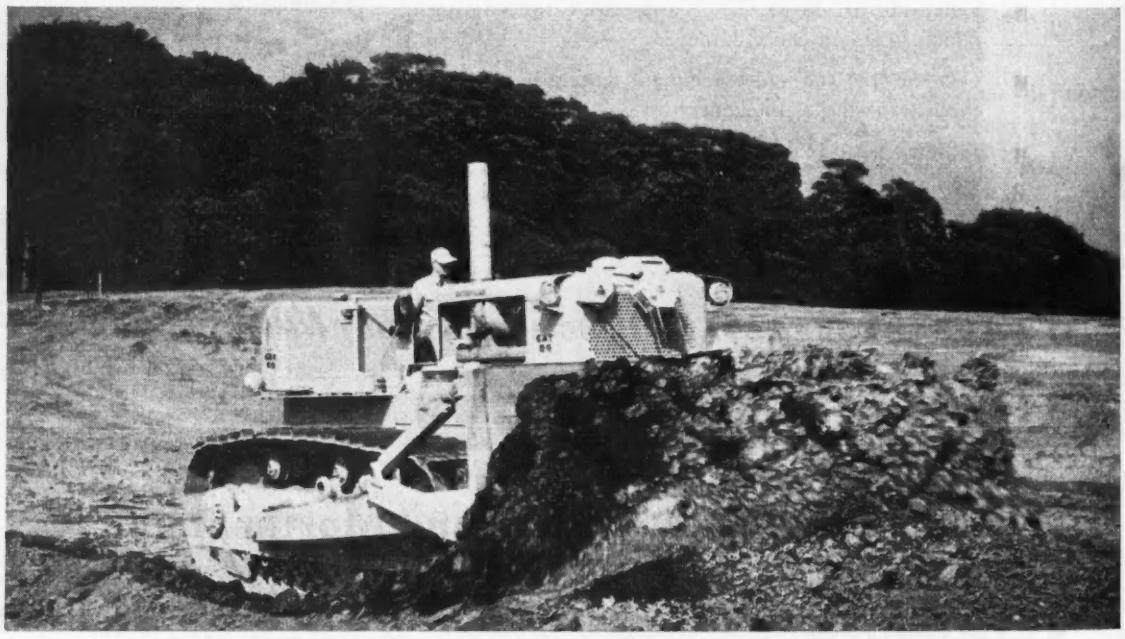

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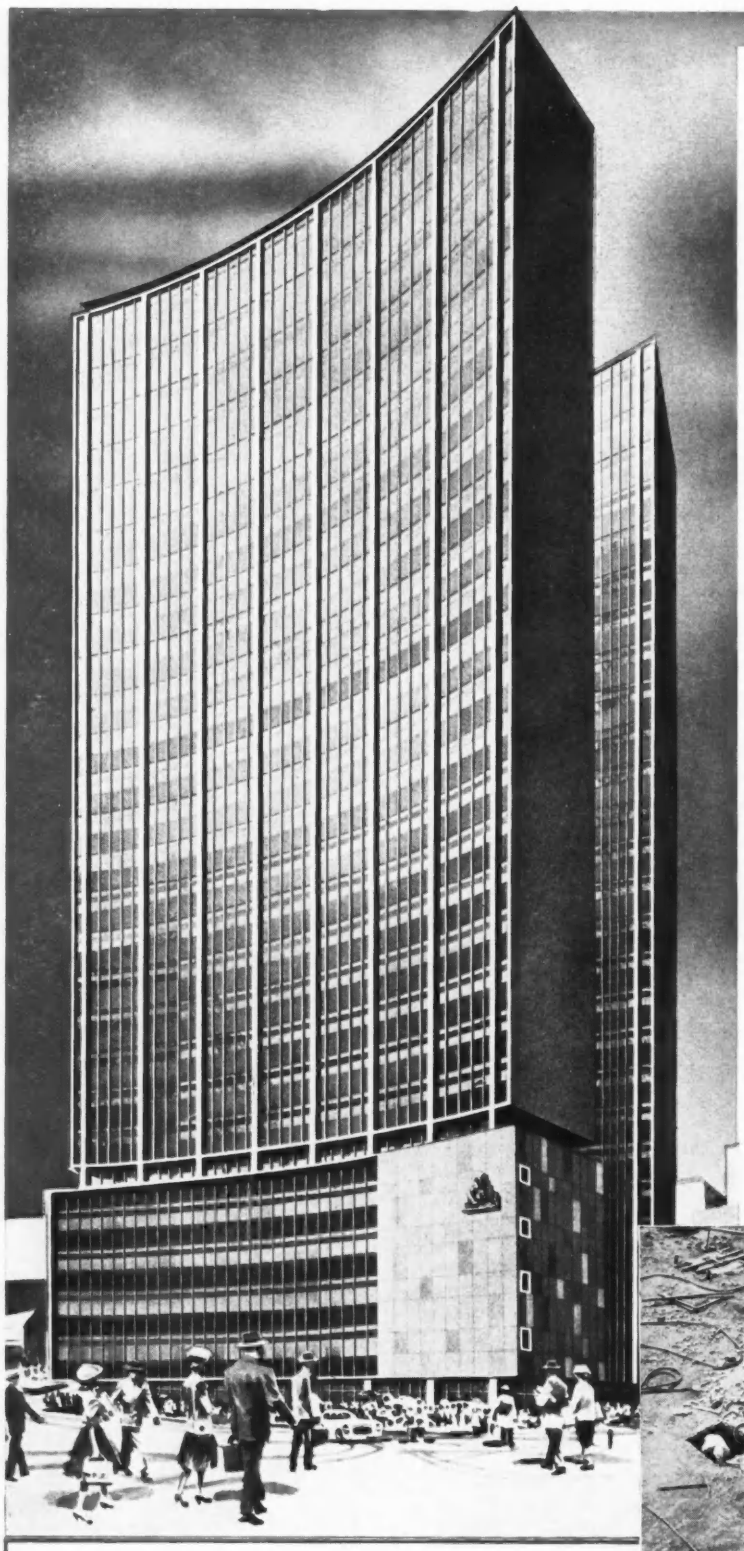

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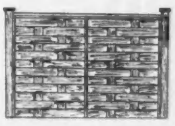

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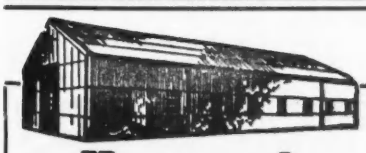

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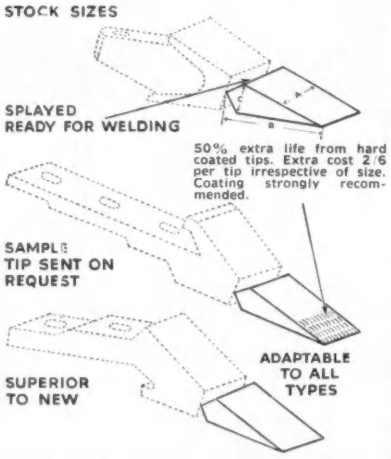

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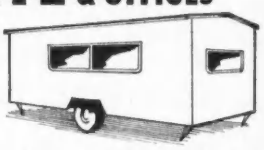

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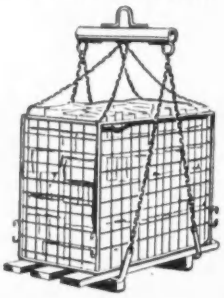
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423, new 1953, with any one equipment, Perkins P6. (Surrey.) £1,550.
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RUSTON MACHINES:
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10RB, with Dragline and Grab, new 1955/56. (South Wales.) £1,900.
19RB, new 1947, with 40ft. Dragline 3VQBN Diesel, good machine. (Ches.) £1,450.
19RB, new 1948, Shovel Equipment, very good. (Durham.) £1,700.
24RB, new 1942, Shovel Equipment. (Staffs.) £1,600.
33RB, new 1951, 50ft. Dragline and Face Shovel, recent overhaul. (Scotland.) £5,200.
37RB, new 1946, with Dragline, fair condition. (Derbys.) £3,750. Shovel Equipment also available.
54RB, new 1944, with 60/70ft. Dragline, etc. (London.) £7,500.
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5/20, 40ft. Dragline, Fowler Diesel. (Essex.)
21, new 1958, 50ft. Dragline. (Essex.) £5,000.
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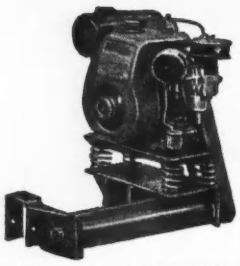

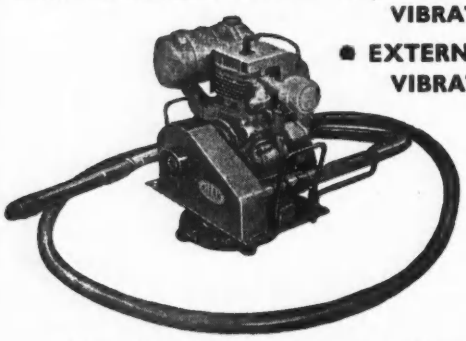

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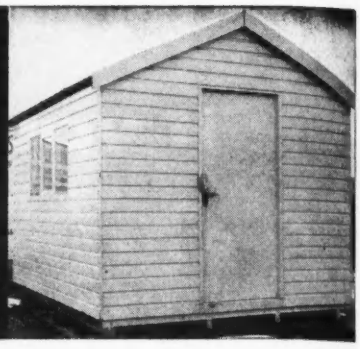

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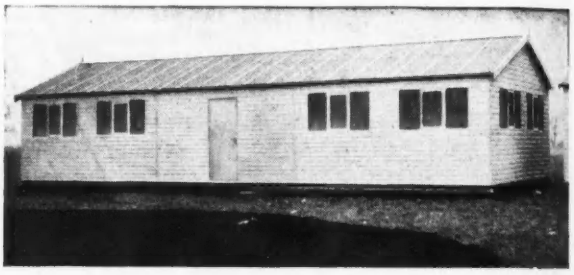

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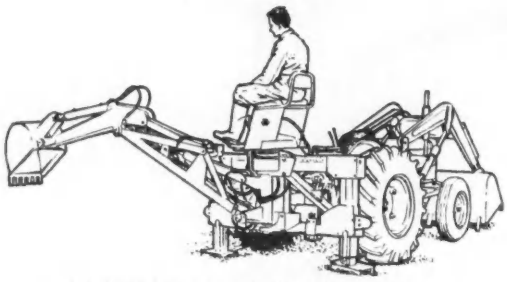

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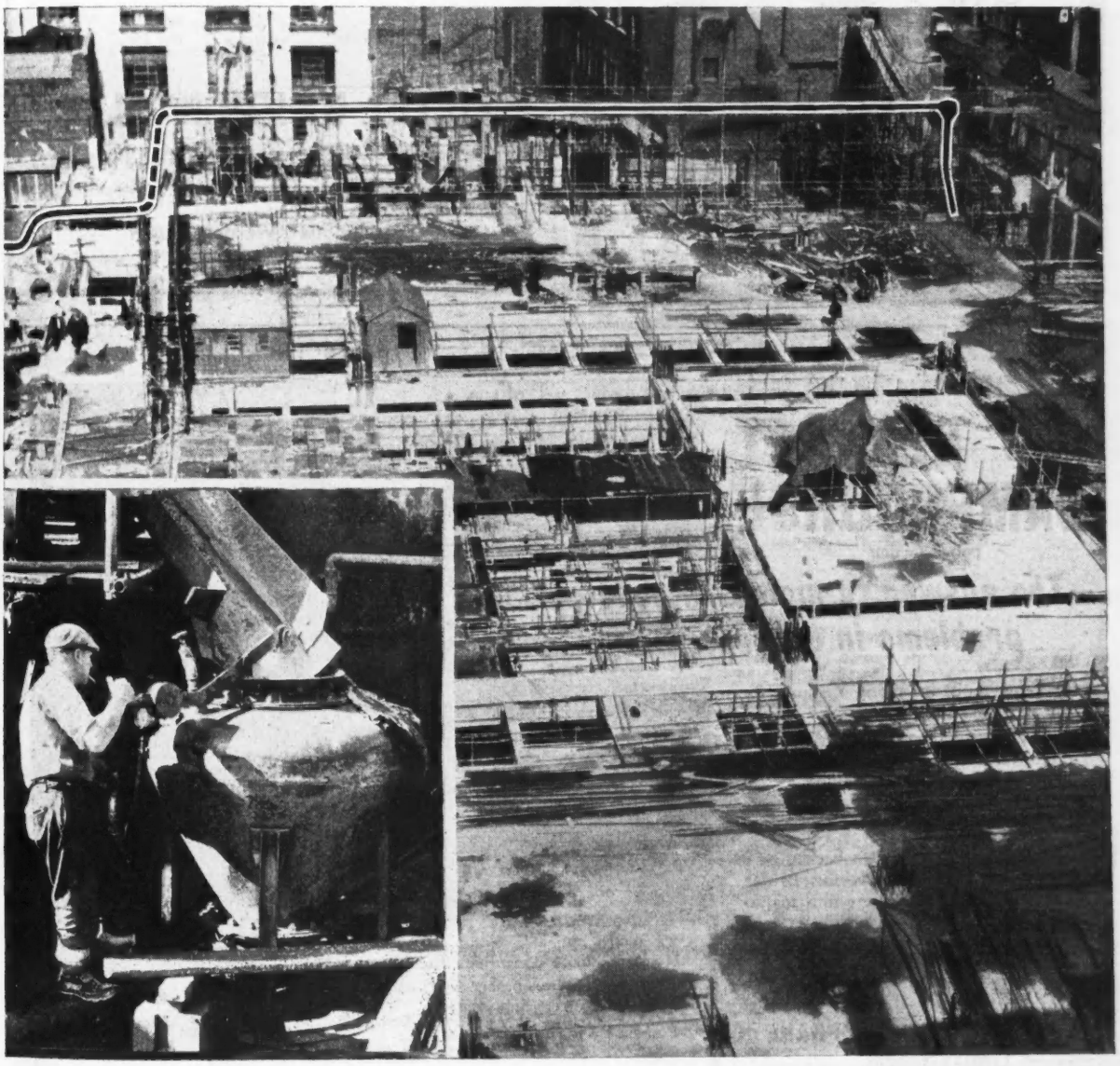

Illustration shows the piping leading from the "Placy" Unit on the left to the discharge point on the extreme right. (Bottom left) The "Placy" being fed from the concrete mixer.

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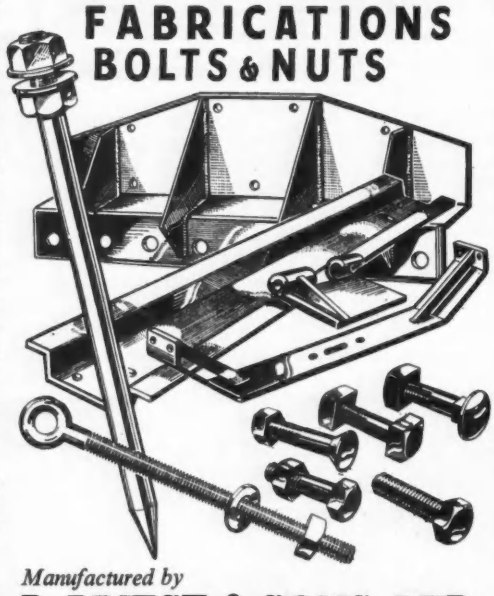

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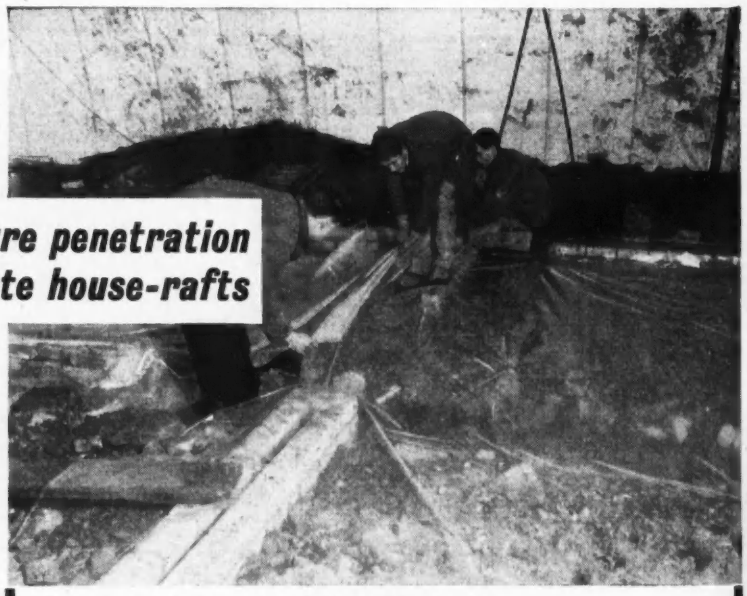

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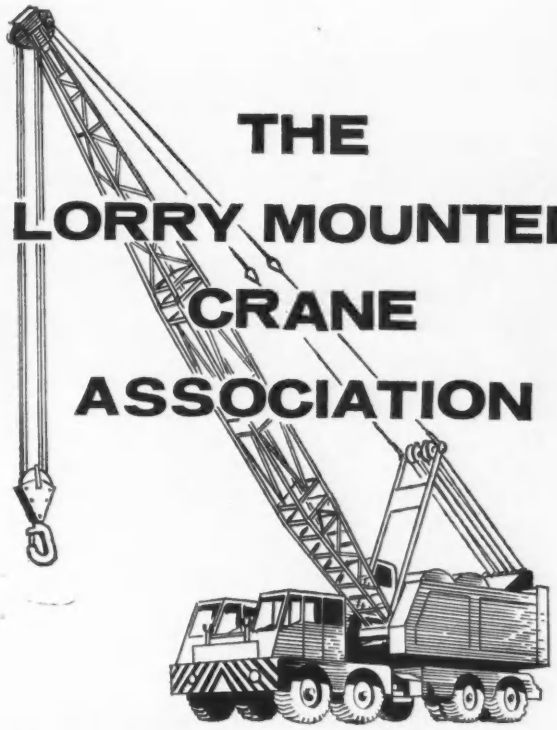

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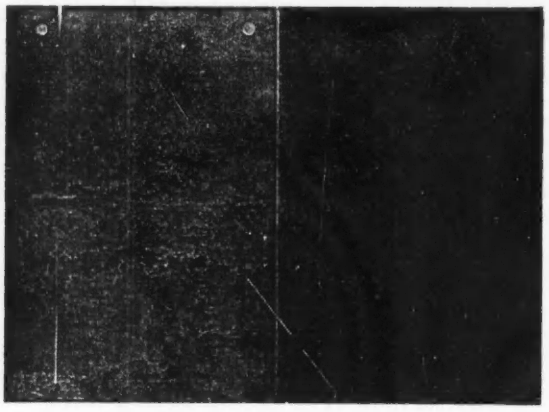

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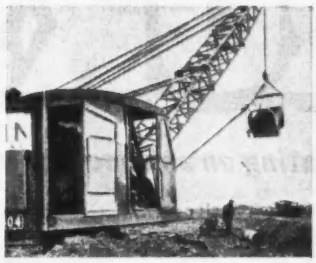

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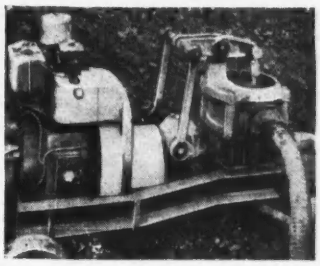

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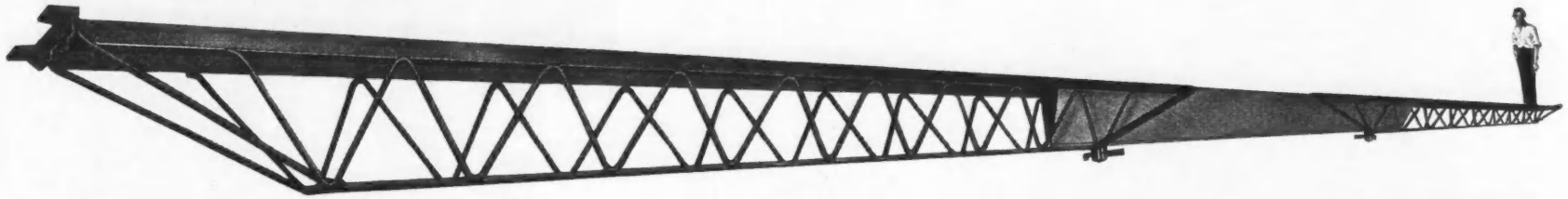

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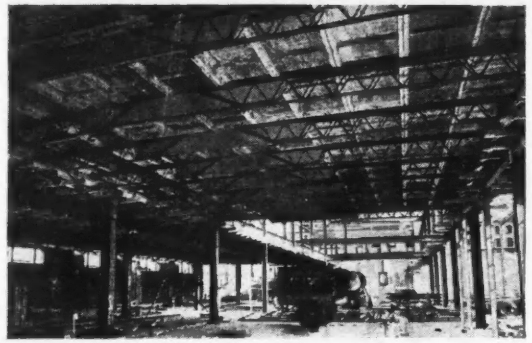
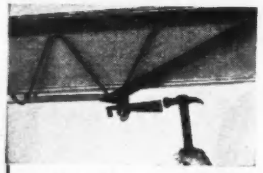


Underside view of 3-section Pecco-Beam in use.



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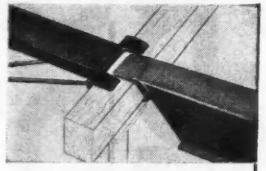

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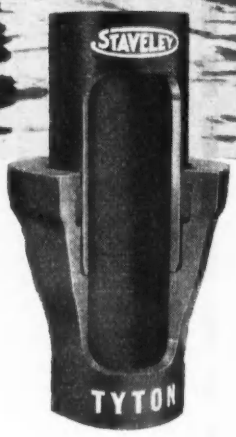
CHILD'S PLAY FOR FROGMEN . .



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Perth County Council were faced with the problem of crossing the famous salmon river, the Tay, with a nine inch pumping main for sewage. They did it with Tyton joints, assembled—quickly and safely—by two frogmen who laid the 18 feet long cast iron pipes in a trench across 180 yards of riverbed.

Authority: Perth County Council,
J.A.C. Law, Esq., B.Sc., Chief Drainage Engineer.
Contractors: Messrs. John McAdam & Sons Ltd., Aberdeen.

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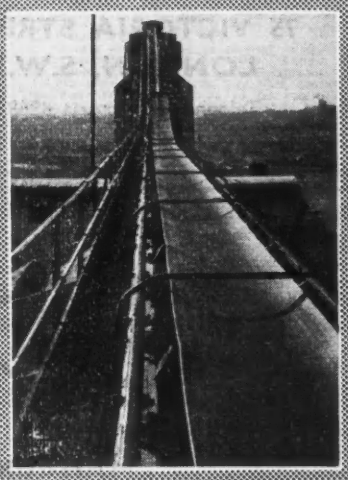

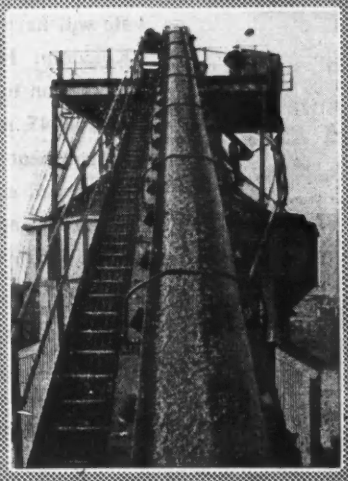

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75 VICTORIA STREET, LONDON, S.W.1

Telephone: Victoria 4868/9

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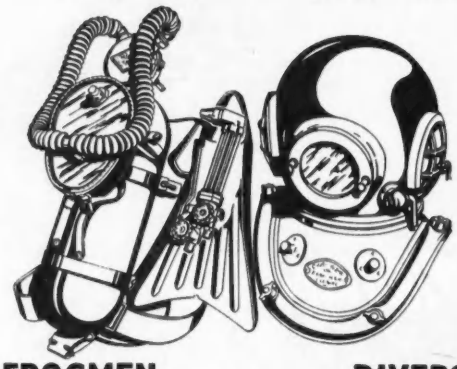

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for the British company of a well-known international civil engineering organisation He will have complete responsibility for the company's operations in the United Kingdom. His appointment will be as General Manager in the first place, but early promotion to Managing Director is anticipated for a successful man. Applic ants aged 40-45, must hold a University Degree in civil engineering. Extensive contract management experience, preferably in marine construction, and re-inforced and prestressed concrete, is essential, and some overseas experience is very desirable. Initial earnings will be up to £5,000 and a generous incentive scheme will give ample scope for this to be increased substantially in the future. Company car; pension scheme. **(Ref. 3521/C J)**

The identities of candidates will not be revealed to our clients without prior permission. Applicants should forward brief details, quoting the reference number, to :-

Personnel Administration Limited, Appointments Division, 2 Albert Gate, London, S.W.1

Regional Offices: GLASGOW · MANCHESTER · BRISTOL · BIRMINGHAM · DUBLIN · LEEDS NEWCASTL

CONTRACTS

BEDFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

ANNUAL CONTRACTS, 1961-62.

TENDERS are invited for the FOLLOWING:—
Supply and Lay Single Course and Two Coat Tarmacadam, Open and Close Texture Bitumen and Tar Carpets, Gravel Asphalt Base Course and Wearing Course, Hot Sand Asphalt Carpet, and Fine Cold Asphalt by Barber-Greene Machine.
Supply of Bitumen Slag and Granite, Tarred Slag and Granite, Gravel Asphalt, Fine Cold Asphalt, Concrete Kerbs, Concrete Pipes and Tubes, Granite (including Precoated Chippings), Gravel, etc., Portland Cement, Slag (including Precoated Chippings), Stoneware Pipes (Seconds), Tar (including Mechanical Spraying), Cold Bitumen Emulsion, Bitumen (Filler) for Reflecting Roadstuds, Thermoplastic White Line Material.
Hire of Lorries, Road Rollers and Verge Cutting Equipment, Excavators, Draglines, etc.
Schedule Contract for Kerbing, Haunching, Winter Gritting and Snow Clearing, Drainage, Footpaths and Culverts.

Forms of Tender from the County Surveyor, Dents Road, Bedford. Completed Tenders must be submitted in endorsed envelopes to the Clerk of the County Council, Shire Hall, Bedford, on or before SATURDAY, 18th February, 1961.

GEORGE BREWIS,
Clerk of the County Council.

Shire Hall,
Bedford.
10th January, 1961.

COUNTY BOROUGH OF ROTHERHAM.

FENTON ROAD EXTENSION.

TENDERS are invited from experienced contractors for the CONSTRUCTION of approx. 2,000 lin. yd. of a NEW SINGLE CARRIAGEWAY ROAD, including Earthworks, Foundations and Dense Bituminous Macadam Surfacing, Kerbing, Flagging, Surface Water and Subsoil Drainage, Soiling and Seeding, together with Accommodation Works.

Specifications and Bills of Quantities may be obtained from MR. E. J. MANSON, B.Eng., A.M.I.C.E., Borough Engineer, Municipal Offices, Howard Street, Rotherham, on payment of a deposit of £5 5s. (Five Guineas) which will be refunded on receipt of a bona-fide Tender and not subsequently withdrawn.

Drawings may be inspected at the Offices of the Borough Engineer during normal working hours.

Tenders, together with fully priced Bills of Quantities, in plain sealed envelopes endorsed "Fenton Road Extension," must be delivered to the undersigned not later than 10 a.m., WEDNESDAY, 15th February, 1961.

The Council does not bind itself to accept the lowest or any Tender.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Howard Street,
Rotherham.
10th January, 1961.

BOROUGH OF EALING.

LAMMAS VALLEY SURFACE WATER SEWER.

Experienced sewerage contractors are invited to TENDER for 969yd. 39in. dia., 159yd. 33in. dia., 75yd. 27in. dia. and smaller SEWERS in Heading; 1,732yd. 21in. dia., 500yd. 15in. dia. and smaller SEWERS in Open Cut; 52 Manholes, and numerous appurtenant works.

Drawings may be inspected, and Forms of Tender, etc., obtained from Borough Surveyor, Town Hall, Ealing, W.5, on payment of a deposit of £5 (returnable on receipt of a bona-fide Tender).

Tenders to TOWN CLERK, Town Hall, Ealing, W.5, by 9.30 a.m. on WEDNESDAY, 1st March, 1961.

BOROUGH OF WIDNES.

The CORPORATION invite TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS required in the Highways Department during the 12 months ending 31st March, 1962:—
(1) Portland Cement.
(2) Broken Stone and Chippings.
(3) Tar and Bitumen (Spraying Grades).
(4) Castings.
(5) Concrete Kerbs and Flags.
(6) Tar and Bituminous Macadam.
(7) Electrical Equipment.
(8) Electric Lamps.
(9) Gas Fittings and Mantles.

Forms of Tender, Specification and envelopes, in which the Tenders must be submitted, may be obtained from F. A. J. KNIGHT, Esq., A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Widnes.

Tenders, in envelopes provided, to be forwarded to reach the undersigned not later than 9 a.m. on THURSDAY, 16th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
January, 1961.

ISLE OF AXHOLME RURAL DISTRICT COUNCIL.

WEST BUTTERWICK SEWERAGE SCHEME.

TENDERS are invited for the FOLLOWING:—
CONTRACT No. 1.—The Construction of approx. 480 lin. yd. of 6in. and 9in. dia. Sewers, together with Manholes, Sewage Ejector Station and Rising Mains, and a Sewage Treatment Works at West Butterwick, in the Isle of Axholme Rural District, Lincolnshire.
CONTRACT No. 2.—The Supply and Erection at West Butterwick of two 50 gallons per minute Ejectors and one Sludge Pump of 50 g.p.m., all complete with Electric Motors, Starters and Accessories.

Contractors wishing to tender should apply for the documents and Drawings to the Council's Consulting Engineers, Messrs. JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Leeds, 6, enclosing a deposit cheque value Three Guineas in respect of each contract, made payable to the Isle of Axholme R.D.C., such deposit to be refunded upon receipt of a bona-fide Tender and the return of all documents and Drawings.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned not later than 12 Noon on the 23rd FEBRUARY, 1961.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

S. W. CHESTER,
Clerk to the Council.

The Gables,
Epworth,
Doncaster.
13th January, 1961.

CONTRACTS

COUNTY BOROUGH OF WEST HAM.

CANNING TOWN PUMPING STATION.

CONTRACT NO. 1.

Applications are invited from civil engineering contractors who will be willing to submit TENDERS on a Fixed-price Basis for the ABOVE SCHEME.

The works included in the Contract comprise a Stormwater Pumping Station with a Sump approx. 25ft. deep; a Siphon Chamber on an existing sewer, together with Connecting Pipework; approx. 155 lin. yd. of 45in. dia. Outfall Pipeline in high strength Reinforced Concrete Pipes, together with an Outfall Chamber to the River Lee, and Site Works including a Small Ancillary Building.

The Supply and Installation of Pumping Machinery and Switchgear is included in a separate Contract.

Applications for Tender documents, enclosing a crossed cheque for Five Pounds made payable to the West Ham Corporation, should be submitted now to the Corporation's Consulting Engineers, MESSRS. JOHN TAYLOR AND SONS, Artillery House, Artillery Row, Westminster, S.W.1. The payment will be refunded on receipt of a bona-fide Tender.

The Tender documents will be forwarded to applicants on or about the 30th January, 1961, and must be returned by Noon on WEDNESDAY, 1st March, 1961.

The Drawings included in the Tender documents may be inspected at the Offices of the Borough Engineer and Surveyor or at the Offices of the Consulting Engineers.

(Signed) G. E. SMITH,
Town Clerk.

West Ham Town Hall,
Stratford,
London, E.15.

BOROUGH OF BEDFORD.

NEW MUNICIPAL OFFICES.

SIX-STOREY OFFICE BLOCK.

Contractors desiring to TENDER for the FINAL CONTRACT for the ABOVE PROJECT are invited to submit their names to F. W. DAWKES, Borough Engineer and Surveyor, Newnham House, Horne Lane, Bedford, not later than FRIDAY, 10th February, 1961.

A selected list of contractors will be made by the Borough Council from applicants. The period for tendering will be a minimum of four weeks, and tenderers will be requested to return priced Bills of Quantities with their Tender.

The new building, which has an internal floor area of about 42,000 sq. ft., is situated adjacent to the existing Town Hall. The Foundations, Basement and Structural Steelwork have been let as separate contracts, which will be completed during April, 1961.

G. F. SIMMONDS,
Town Clerk.

Town Hall,
Bedford.
16th January, 1961.

BOROUGH OF MORLEY.

HIGHWAYS COMMITTEE.

The MORLEY BOROUGH COUNCIL invite TENDERS for the SUPPLY and DELIVERY of the FOLLOWING MATERIALS for the year ending 31st March, 1962:—
(1) Bituminous and Tarred Granite and Limestone.
(2) Dry Granite, Limestone and Quartzite Chippings.
(3) Concrete Aggregate.
(4) Pea Gravel (for Road Gritting).
(5) Portland Cement.
(6) Salt (for Road Purposes).
(7) Concrete Flags, Kerb and Edging.
(8) Salt Glazed Ware Pipes and Gullies.
(9) Manhole Covers and Frames, Gully Grates and Frames.
(10) Brooms (for Street Sweeping).
(11) Bitumen Emulsion.
(12) Bitumen and Tar, Supplied and Sprayed on Roads.
(13) Cold Asphalt.

Tenders must be submitted on the forms which may be obtained from the Borough Engineer's Office, Town Hall, Morley, Yorks.

Tenders, in envelopes sealed and endorsed with the material tendered for, to be delivered to the undersigned not later than First Post on FRIDAY, 10th February, 1961.

E. V. FINNIGAN,
Town Clerk.

Town Hall,
Morley, Yorks.

LEATHERHEAD URBAN DISTRICT COUNCIL.

TENDERS are invited for HIGHWAY IMPROVEMENT WORKS on the A.246 near BECKLEY COTTAGES, Great Bookham, including 1,700 lin. yd. Kerbing, 2,400 sq. yd. Lean-Mix Concrete, 8,000 sq. yd. Bituminous Macadam Carriageway Surfacing, 3,200 sq. yd. Footway Surfacing, Drainage, and ancillary works.

Documents obtainable from the Engineer and Surveyor's Department, Red House, Leatherhead, where Plans may be inspected.

Tenders to be returned by Noon, 25th FEBRUARY, 1961.

J. EDE,
Clerk of the Council.

Council Offices,
Leatherhead.

TETBURY RURAL DISTRICT COUNCIL.

AVENING SEWERAGE.

PROPOSED SEWER AT WOODSTOCK.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of about 180 lin. yd. of 6in. SEWER.

Tendering documents may be obtained from, and Plans inspected by appointment, at the office of the Council's Consulting Engineers, MESSRS. HARVEY McGILL AND HAYES, 38 Market Place, Chippenham, Wilts.

Applications are to be accompanied by a cheque for Two Pounds, payable to the Tetbury Rural District Council, and in the case of contractors who have not previously carried out work for the Council or under the direction of the Engineers, by particulars of similar work done and the names and addresses of the Engineers concerned. The deposit will be returnable on receipt of a bona-fide Tender not subsequently withdrawn and return of all documents required.

Tenders are to be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 8th February, 1961, in an envelope endorsed "Tender for proposed Sewer at Woodstock."

The Council do not bind themselves to accept the lowest or any Tender.

EDWARD J. BROWN,
Clerk of the Council.

Council Offices,
Tetbury,
Glos.
January, 1961.

CONTRACTS

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

MAYESBROOK MEADOW—LAND EAST OF MEADOW ROAD HOUSING SITE.

TENDERS, returnable by 9 a.m. on MONDAY, 27th February, are invited for the CONSTRUCTION of approx. 4,500 sq. yd. of HARDCORE and BITUMEN MACADAM CARRIAGEWAY and GARAGE AREAS, including the Laying of Precast Concrete Paving, Channel and Kerb.

The work includes the Laying of approx. 90 lin. yd. of 9in. and 210 lin. yd. of 6in. Surface Water and Foul Sewers, together with the Provision of Manholes, and ancillary works.

Specification, Bill of Quantities and Form of Tender can be obtained on application to the Borough Engineer and Surveyor, Town Hall, Barking, Essex.

E. R. FARR,
Town Clerk.

BOROUGH OF BARKING.

REINSTATEMENT OF STATUTORY UNDERTAKERS' TRENCHES AND MISCELLANEOUS PAVING WORK.

TENDERS are invited for the PERMANENT REINSTATEMENT of TRENCHES and MISCELLANEOUS PAVING WORK within the Borough of Barking, on a Term Contract Basis, the initial period being for one year.

The total area of reinstatement will be in the order of 10,000 sq. yd. per year, mainly in Footways.

Tender documents can be obtained from the Borough Engineer and Surveyor, Town Hall, Barking, and should be returned to The Worshipful the Mayor, Town Hall, Barking, by 9 a.m. on TUESDAY, 21st February, 1961.

E. R. FARR,
Town Clerk.

CARDIFF CITY COUNCIL.

CITY SURVEYOR'S DEPARTMENT.

STREET LIGHTING STORES AND EQUIPMENT.

TENDERS are invited for the SUPPLY for the period ending 31st March, 1962, of the FOLLOWING STREET LIGHTING EQUIPMENT:
(1) Concrete Lighting Columns.
(2) Lanterns, including Lamps and Control Gear.
(3) Solar Time Switches.

Tenderers must be enrolled on the Queen's National Roll, or submit satisfactory reasons for not being so enrolled, and must have complied for at least three months immediately preceding the date of this notice with the General Conditions of the Fair Wages Resolution passed by the House of Commons on the 14th October, 1946.

Specifications, Conditions, Schedules and Forms of Tender may be obtained from the City Surveyor, City Hall, Cardiff.

Tenders will not be considered unless enclosed in plain sealed envelopes endorsed "Tender for Supply of Street Lighting Stores and Equipment," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than the 20th FEBRUARY, 1961.

Envelopes containing Tenders must not bear any name or mark indicating the identity of the tenderer.

The City Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
16th January, 1961.

PRESCOT URBAN DISTRICT COUNCIL.

COUNCIL.

ANNUAL TENDERS FOR 1961-62.

TENDERS are invited for SUPPLYING the FOLLOWING PLANT and MATERIALS during the year ending 31st March, 1962:—
(1) Ashes.
(2) Cement.
(3) Petrol, Fuel Oil and Gas Oil.
(4) Paints.
(5) Precast Concrete Kerbs, Channels and Flags.
(6) Road Surfacing Materials.
(7) Sand and Concrete Aggregates.
(8) Salt Glazed Ware Pipes and Fittings.
(9) Transport and Rollers.

Particulars and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Prescot.

Tenders, in plain sealed envelopes, appropriately endorsed, must reach the undersigned not later than SATURDAY, 18th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

F. LAMBERT,
Clerk of the Council.

Council Offices,
Prescot.
January, 1961.

RAMSBOTTOM URBAN DISTRICT COUNCIL.

SUPPLY OF MATERIALS—1961/62.

TENDERS are invited for the SUPPLY of MATERIALS required for the year ending 31st March, 1962.

Schedule and further particulars may be obtained from the Engineer and Surveyor, Council Offices, Ramsbottom, Via Bury.

Tenders, endorsed "Materials," should be delivered in plain sealed envelopes to the undersigned not later than 9.30 a.m. on THURSDAY, 9th February, 1961.

F. BELLIS,
Clerk of the Council.

Council Offices,
Ramsbottom,
Via Bury.

MAIDSTONE AND DISTRICT CREMATORIUM JOINT COMMITTEE.

TENDERS FOR CHAIN LINK FENCING (APPROXIMATELY 950 LIN. YD.).

The Committee invites firms specialising in the SUPPLY and ERECTION of CHAIN LINK FENCING who desire to TENDER to submit their names to the undersigned not later than Saturday, 4th February, 1961.

Forms of Tender, Conditions of Contract and general particulars will be forwarded in time for Tenders to be submitted, in the envelope supplied, not later than First Post on the 6th MARCH, 1961.

The Committee does not bind itself to accept the lowest or any Tender.

GEO. G. LETCHFORD,
Clerk to the Committee.

Council Offices,
26 Tonbridge Road,
Maidstone.
12th January, 1961.

CONTRACTS

COUNTY COUNCIL OF DURHAM.

TENDERS invited for the UNDERMENTIONED SERVICES at DINSDALE PARK, ELEMORE HALL, WALWORTH CASTLE, WINDLESTONE HALL and REDWORTH HALL RESIDENTIAL SCHOOLS and BIRTLEY LEAFIELD HOUSE HOSTEL:—

Swill Collection.
Footwear Repairs.
Window Cleaning.

Particulars from undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
23rd January, 1961.

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY of the FOLLOWING:

(1) Portable Spectator Stands for use at sports meetings, etc.
(2) Lightweight Camping Equipment.

Details and Forms of Tender, returnable by 10th FEBRUARY, 1961, from undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
23rd January, 1961.

BOROUGH OF GILLINGHAM.

REDEVELOPMENT AREA—BROMPTON, GROUP F—12 DWELLINGS.

FIXED-PRICE TENDERS are invited for the ERECTION of ONE BLOCK of 10 FLATS and ONE PAIR of HOUSES at WOOD STREET, Brompton, Gillingham, Kent.

Persons desirous of tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender, and may inspect the Drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours.

Applications should be accompanied by a cheque for Five Guineas (£5 5s.) made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in sealed envelope supplied and endorsed "Tender for 12 Dwellings—Wood Street," must be delivered to the undersigned by not later than 12 Noon on FRIDAY, 24th February, 1961.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.
20th January, 1961.

CITY OF STOKE-ON-TRENT.

STREET LIGHTING.

CONVERSION OF GAS TO ELECTRIC LIGHTING—PHASE I.

ERECTION OF ALUMINIUM COLUMNS.

TENDERS are invited for the ERECTION and WIRING of STREET LIGHTING COLUMNS in the City of Stoke-on-Trent.

The work consists of the Erection Only of Class "B" Aluminium Columns with Post Top mounting Lanterns, the Provision of Cable and Earth Wire, the Fitting of Gear and Wiring complete of: 257 80-W Colour Corrected Mercury Vapour Lamps complete with Gear and Time Switch; 850 150-W Tungsten Lamps complete with Time Switch.

The General Conditions, etc., dated 1948, prepared by the Institution of Mechanical Engineers and the Institution of Electrical Engineers, will apply to this Contract.

Drawings and Contract documents may be seen, and Specification, Bill of Quantities, Form of Tender, and full particulars obtained from the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, on payment of a deposit of £2 which will be repaid to contractors who submit bona-fide Tenders.

Tenders and priced Bills of Quantities (in the separate envelopes provided) are to be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 8th February, 1961.

HARRY TAYLOR,
Town Clerk.

CITY OF STOKE-ON-TRENT.

HIGHWAYS ACT, 1959.

MAKING-UP OF PRIVATE STREETS.

MOXLEY AVENUE (PART), SNEYD GREEN—CONTRACT NO. 16.
COURTWAY DRIVE (PART), SNEYD GREEN—CONTRACT NO. 17.
CHURSTON PLACE, SNEYD GREEN—CONTRACT NO. 19.
CRANLEIGH AVENUE, SNEYD GREEN—CONTRACT NO. 20.

The CORPORATION invite TENDERS for the MAKING-UP of the ABOVE STREETS.

Drawings and Conditions of Contract may be seen, and Bills of Quantities and Specifications obtained from the City Surveyor's Department, Town Hall, Stoke-on-Trent, on payment of £3 which will be returned on receipt of a bona-fide Tender.

Tenders must be delivered to the Town Clerk, Town Hall, Stoke-on-Trent, in a separate envelope provided, not later than 12 Noon on WEDNESDAY, 8th February, 1961.

HARRY TAYLOR,
Town Clerk.

THAMES VALLEY WATER BOARD.

CONTRACT NO. 24.

4IN. WATER MAIN—UFTON NERVET ROAD, SULHAMSTEAD, TO HOME FARM, SULHAMSTEAD, BERKS.

The Board invite FIXED-PRICE TENDERS for the ABOVE CONTRACT, comprising:—

(a) Laying and Jointing approx. 1,340yd. of 4in. Spun-Iron Water Mains.
(b) Other appurtenant works, e.g., Fixing Specials, Washouts, Sluice Valves, etc., with Connections to existing Mains.

Drawings and General Conditions may be inspected at the Office of the Engineer and Manager, 16/20 The Forbury, Reading. Copies of the Specification, Bill of Quantities, etc., may be obtained from the undersigned on payment of a deposit of £3 3s. (made payable to the Board), which will be refunded upon receipt of a bona-fide Tender and all documents.

Tenders must be delivered not later than 9 a.m. on MONDAY, 20th February, 1961, in the addressed envelope supplied.

The Board do not bind themselves to accept the lowest or any Tender.

P. E. B. GOSLING,
Clerk/Treasurer.

Berkeley Avenue,
Reading.

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.

Southampton County Borough Council invites TENDERS for the FOLLOWING CONTRACT on Bills of Quantities available in mid-February:—

CONTRACT B.344.—136 Flats in Four Five-storey Blocks in Traditional Construction (Types A.5 and E.5) at Maybush Triangle.

Applications for tender documents should be received by the BOROUGH ENGINEER, Civic Centre, Southampton, not later than 10 a.m. on MONDAY, 13th February, 1961.

BOROUGH OF WATFORD.

NASCOT WOOD SEWERAGE SCHEME—STAGE II.

(REPEAT ADVERTISEMENT.)

Public works contractors are invited to TENDER for the CONSTRUCTION of the FOLLOWING:—

1,500 lin. yd. of Single Sewers, 6in. dia. to 21in. dia., in open cut up to 11ft. 6in. deep.
1,400 lin. yd. of Dual Sewers, 9in. dia. to 24in. dia., in open cut up to 18ft. 6in. deep.
315 lin. yd. of Dual Sewers, 9in. dia. to 30in. dia., in heading up to 23ft. deep.
37 Single Manholes.
29 Twin Manholes, together with Gullies, House Connections and other ancillary works.

Applications for documents accompanied by a Deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, should be made to Mr. F. C. SAGE, Borough Engineer and Surveyor, Town Hall, Watford.

Tenders must be delivered to the undersigned, in the envelope provided, not later than 2 p.m. on MONDAY, 13th February, 1961.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford, Herts.

BOROUGH OF COLNE.

ROAD IMPROVEMENT—KEIGHLEY ROAD, COLNE (A.6068).

TENDERS, on a Fixed-price Basis, are invited for the ABOVE WORK, comprising Formation of Embankment requiring approx. 22,000 cu yd. of Fill, Kerbing, and Construction of Carriageway in Waterbound Macadam with Bituminous Macadam Surfacing (approx. 4,500 super. yd.), together with Drainage and Construction of ancillary Retaining Walls.

Tender documents, incorporating the Ministry of Transport Specification for Road and Bridge Works, may be obtained from the Borough Engineer, Town Hall, Colne, Lancs., on receipt of £5 deposit (returnable on submission of a bona-fide Tender), and must be returned in a plain sealed envelope endorsed "Road Improvement—Keighley Road," to the TOWN CLERK, Town Hall, Colne, not later than 9 a.m., FRIDAY, 17th February.

BOROUGH OF MANSFIELD.

PRIVATE STREET WORKS—NORBURY DRIVE.

TENDERS are invited for MAKING-UP the ABOVE PRIVATE STREET.

The work consists of Providing and Laying New Kerbs, Channels, Waterbound Macadam, Flagging, and some 3,058 sq. yd. of 3in. Bituminous Surfacing.

Tender documents can be obtained from E. T. CROWE, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, against a deposit of £2 2s. which will be returned upon the receipt of a bona-fide Tender.

The Corporation does not bind itself to accept the lowest or any Tender.

Tenders must be returned in the envelope provided, to reach the undersigned not later than 12 Noon, FRIDAY, 24th February, 1961.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

CITY OF LEICESTER.

SEWAGE DISPOSAL CONTRACT NO. 4A.

TENDERS are invited for the CONSTRUCTION of the THIRD SECTION of the new SEWAGE DISPOSAL WORKS for the City situated at WANLIP. This section comprises an Inlet Culvert, Mechanical Screens, Detritor Tanks, Grit and Disintegrator Pumping Station, Power and Pumphouse Substructure, and various miscellaneous works.

General Conditions of Contract, Specification, Bills of Quantities and Drawings may be obtained from the Council's Consulting Engineers, Messrs. J. D. AND D. M. WATSON, MM.I.C.E., 67 Tufton Street, Westminster, S.W.1 on and after Monday, 30th January, 1961, on payment of a deposit of £10 10s., refundable only to contractors who submit bona-fide Tenders and return all documents and Drawings. Deposit cheques should be made payable to the Leicester City Council.

Tenders must be returned in the envelopes provided, and endorsed "Tender for Wanlip Sewage Works (Contract No. 4A)," and delivered at the Office of the undersigned by 4.30 p.m. on FRIDAY, 17th March, 1961.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

CITY OF CARLISLE.

MORTON ESTATE—STAGE 5—ROADS AND SEWERS.

TENDERS are invited for the ABOVE.

The work comprises the Construction of Roads and Sewers (Foul and Surface Water) for a Housing Estate of approx. 460 Dwellings.

Particulars from City Surveyor, 18 Fisher Street.
Closing date: 20th FEBRUARY, 1961.

H. D. A. ROBERTSON,
Town Clerk.

LLANDUDNO URBAN DISTRICT COUNCIL.

RETREAD SURFACING OF THE MARINE DRIVE.

The Council invite TENDERS for the RETREAD SURFACING of approx. 8,750 sq. yd. of the MARINE DRIVE, Llandudno.

Specification, Bill of Quantities and Form of Tender may be obtained from the undersigned.

The Form of Tender must be delivered to the Clerk to the Council, Town Hall, Llandudno, in a plain sealed envelope bearing no mark or indication of the sender but endorsed "Tender for Marine Drive," before Noon, WEDNESDAY, 22nd February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. EDWARDS, B.Eng., A.M.Inst.C.E., M.I.Mun.E., A.M.T.P.I.,
Engineer and Surveyor.

Town Hall,
Llandudno.
20th January, 1961.

CONTRACTS

BOROUGH OF ENFIELD.

24 FLATS, 26 HOUSES AND 50 GARAGES, HOE LANE, ENFIELD.

Building contractors desirous of TENDERING for the ERECTION of 24 FLATS, 26 HOUSES and 50 GARAGES, Hoe Lane, Enfield, should apply to the Borough Engineer and Surveyor, H. DERYCK PEAKE, M.Sc.(Eng.), M.I.C.E., 7 Little Park Gardens, Enfield, by First Post, TUESDAY, 7th February, 1961. Bills of Quantities and Forms of Tender will be forwarded on or about the 10th February, 1961.

All applications must be accompanied by a deposit of £2 2s., to be returned on receipt of a bona-fide Tender addressed to the undersigned, and/or the return of all documents.

Plans and Conditions of Contract may be inspected at the Offices of the Borough Engineer as aforesaid, on or after the 13th February, 1961, on Mondays to Fridays, between the hours of 9 a.m. and 12.30 p.m.

Tenders must reach the undersigned not later than Noon on MONDAY, the 6th March, 1961, and no Tender will be received except in a plain envelope which must be sealed and must bear the words "Tender for 24 Flats, 26 Houses and 50 Garages—Hoe Lane, Enfield," but shall not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

Contractors tendering will be required to submit particulars of similar works which have been carried out by them.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield, Middx.
22nd December, 1960.

BOROUGH OF SHREWSBURY.

MAKING-UP AND WIDENING OF PRESTON STREET.

TENDERS are invited for the ABOVE ROADWORKS and accompanying Sewers, comprising the following approx. quantities: 6,400 sq. yd. of Tarmacadam Carriageway; 3,500 sq. yd. of Flagged Footpaths; 4,300 sq. yd. of Grass Verge; 200 lin. yd. of 6in. dia. G.B.W. Foul Sewer; 400 lin. yd. of 9in. dia. Concrete S.W. Sewer; together with various ancillary works.

Forms of Tender, Specification and Bills of Quantities may be obtained from, and Drawings and Conditions of Contract may be examined at, the Office of the Borough Surveyor, Guildhall, Shrewsbury, on receipt of a deposit of Two Guineas (payable to Shrewsbury Corporation), returnable on receipt of bona-fide Tenders and return of all documents.

Tenders, enclosed in plain envelopes bearing no mark or identification of sender, endorsed "Tender—Preston Street Roadworks," should be delivered to the undersigned not later than 10 a.m. on MONDAY, 27th February, 1961.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.

THURROCK URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

LONDON-TILBURY TRUNK ROAD, A.13—SURFACE WATER DRAINAGE SCHEME, DELL HOLE, STIFFORD.

TENDERS are invited for the CONSTRUCTION of some 800 lin. yd. of 15in. dia. SEWER, including Manholes and ancillary works.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Whitehall Lane, Grays, on payment of £2 2s. deposit which will be refunded on receipt of a bona-fide Tender.

Drawings and General Conditions of Contract may be inspected at his Office during normal office hours.

Tenders, in a plain sealed envelope endorsed "Surface Water Drainage Scheme—Dell Hole, Stifford," must be delivered to the undersigned by not later than 12 Noon on TUESDAY, the 7th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

A. E. POOLE,
Clerk of the Council.

Council Offices,
Whitehall Lane,
Grays.

THE TEES VALLEY AND CLEVELAND WATER BOARD.

STORES, MATERIALS, ETC.

The Board invites TENDERS for the SUPPLY during the year ending the 31st March, 1962, of the UNDERMENTIONED ITEMS:—

(1) Spun-Iron Concrete Lined Pipes, 3in.-27in. dia.
(2) Spun-Iron Concrete Lined Pipes with Tyton joints, 3in.-27in. dia.
(3) Cast-Iron Concrete Lined Pipes, 25in.-36in. dia.
(4) Cast-Iron Special Pipes, Unlined, 3in.-36in. dia.
(5) Cast-Iron Bolted Gland Special Pipes, Unlined, 3in.-36in. dia.
(6) Cast-Iron Surface Boxes.
(7) Precast Concrete Ferrule Box Flags.
(8) Precast Concrete Sections.
(9) Precast Concrete Hydrant Indicator Posts.
(10) Bricks—Common and Engineering.
(11) Waterworks Pattern Double Flanged Sluice Valves.
(12) B.S.S. No. 750-1950 Screw-down Streamline Pattern Hydrants.
(13) Sand and Gravel.
(14) Portland Cement.
(15) Nails, Screws, Nuts and Bolts.
(16) Stop Cocks and Stop Cock Ferrules.
(17) Bass Brooms, Sweeping Brushes (Unshafted) and Scrubbing Brushes.
(18) Cast-Iron Leadless Split Collars.

STATIONERY:

(25) Section "A"—Ruled and Printed Forms, Plain Stationery, etc.
(26) Section "B"—Ruled and Printed Books.

Parties wishing to tender should apply, in writing, to the undersigned, indicating in which of the above items they are interested, when they will be supplied with the appropriate documents.

Tenders, in plain sealed envelopes, addressed to "The Chairman" at the address of the Board given below, and endorsed "Tender for Items No. or Nos. ——" (as the case may be), are to be received by 10 a.m. on WEDNESDAY, 22nd February, 1961.

The Board does not bind itself to accept the lowest or any Tender.

E. A. MORRIS,
Clerk of the Board and Chief Executive Officer.

Water Board Offices,
Corporation Road,
Middlesbrough.
24th January, 1961.

CONTRACTS

BOROUGH OF KING'S LYNN.

HIGHWAYS ACT, 1959.

MAKING-UP OF ESTUARY ROAD.

TENDERS, on a Fixed-price Basis, are invited for the RESURFACING of approx. 7,950 sq. yd. of CARRIAGEWAY, Laying 1,588 lin. yd. of Kerbing, and 483 lin. yd. of Surface Water Sewers, together with ancillary works, at Estuary Road, King's Lynn.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from, and General Conditions of Contract and Drawings inspected at, the Office of the Borough Engineer, Clifton House, 17 Queen Street, King's Lynn, upon payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender.

Tenders, in the envelope provided, must be returned to the undersigned not later than Noon on 22nd FEBRUARY, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

E. W. GOCHER,
Town Clerk.

Town Hall,
King's Lynn.

BOROUGH OF FINCHLEY.

PROPOSED ENLARGEMENT OF SURFACE WATER SEWER.

NETHER STREET - ARGYLE ROAD, N.12.

TENDERS are invited for the CONSTRUCTION of the ABOVE-MENTIONED SCHEME, comprising approx. 13 lin. yd. of 15in., 220 lin. yd. of 18in., and 100 lin. yd. of 21in. Concrete Pipes, together with new Brick Manholes and other ancillary works.

Drawings and Conditions of Contract may be seen, and the Specification of Works and Form of Tender obtained from the Office of the Borough Engineer and Surveyor, 294-6 Regent's Park Road, Finchley, N.3.

A deposit of £2 will be required, which will be returned on receipt of a bona-fide Tender and the return of the documents supplied.

No Tender will be considered unless it is received in a plain sealed envelope marked "Tender for Proposed Enlargement of Surface Water Sewer," and not bearing any name or mark indicating the sender.

Tenders must reach the undersigned by not later than 12 Noon on MONDAY, 27th February, 1961.

The Council does not bind itself to accept the lowest or any Tender.

R. M. FRANKLIN,
Town Clerk.

Municipal Offices,
Finchley, N.3.
January, 1961.

BOROUGH OF ILFORD.

GEARIES INFANTS' AND JUNIOR SCHOOLS—NEW INFANTS' ASSEMBLY HALL AND EXTENSION TO JUNIOR HALL.

The CORPORATION invite TENDERS for the ABOVE-NAMED WORKS.

Conditions of Contract may be inspected, and Forms of Tender, Bills of Quantities and Drawings obtained from the Borough Engineer, Town Hall, Ilford, upon written application and payment of a deposit of £2 2s. which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and all documents issued.

Tenders, in plain sealed envelopes endorsed "Tender for Extension to Gearies School," but not bearing any name or mark indicating the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 28th February, 1961. Priced Bills of Quantities must be returned at the same time as the Tender, in the special envelope provided.

ILMINSTER URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and ERECTION of 64 x 140-W SODIUM DISCHARGE LAMPS on TRUNK ROAD, A.303, Ilminster.

Specification, etc., may be obtained from N. J. ARNEY, Surveyor, Council Offices, Ilminster, and Tenders, in plain sealed envelopes endorsed "Street Lighting," should be received by the undersigned not later than First Post on 21st FEBRUARY, 1961.

B. COOPER,
Clerk of the Council.

Council Offices,
Ilminster, Som.

BRIERLEY HILL URBAN DISTRICT COUNCIL.

IMPROVEMENT OF COTTAGE STREET, BRIERLEY HILL.

The Council invite TENDERS for THIS WORK, which comprises the Laying of about 320yd. of Kerbing, the Construction of 1,200 sq. yd. of Carriageway with Premixed Waterbound Macadam, the Surfacing of 650 sq. yd. of Footpath, and the Laying of 240yd. of 9in. dia. Storm Sewer, together with ancillary work.

Drawings and Conditions of Contract may be inspected at the Office of the Engineer and Surveyor, Civic Buildings, Brierley Hill, where a Specification, Bills of Quantities and a Form of Tender may be obtained upon payment of a deposit of Three Guineas which will be refunded on the submission of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders, with fully priced Bills of Quantities, enclosed in plain sealed envelopes endorsed "Cottage Street Improvement," to be returned to the undersigned, so as to be received not later than 12 o'clock Noon, FRIDAY, 17th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

HERBERT HEX,
Clerk of the Council.

Civic Buildings,
Brierley Hill.
24th January, 1961.

COSELEY URBAN DISTRICT COUNCIL.

DIMMOCK STREET EXTENSION.

TENDERS are invited for the CONSTRUCTION of the ABOVE-NAMED STREET, comprising the Supply and Laying of approx. 480 lin. yd. Concrete Kerb and Channel, 1,630 super. yd. of Hardcore and Tarmacadam Surfacing to Carriageway, and 700 super. yd. of Tarmacadam and Cold Asphalt Footpaths, together with ancillary works.

Tender documents, returnable by MONDAY, 13th February, 1961, may be obtained from the undersigned on deposit of £2 which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

J. C. ROPER,
Clerk of the Council.

Council House,
Coseley.
26th January, 1961.

CONTRACTS

METROPOLITAN BOROUGH OF WANDSWORTH.

EXTERNAL PAINTING.

Contractors wishing to TENDER for EXTERNAL PAINTING WORKS at WENDELSWORTH ESTATE, ALLFARTHING LANE, S.W.18 (232 dwellings in eight-storey blocks and boiler house) should submit their names to me by not later than WEDNESDAY, 15th February, 1961, giving details of experience and plant available, together with the names of two technical and two financial referees.

Tender documents will be issued to selected contractors in due course.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

METROPOLITAN BOROUGH OF POPLAR.

TENDERS are invited for the period ending 31st March, 1962, for the FOLLOWING:—

(a) Uniform Clothing and Sewermen's Suits.
(b) Overall Clothing.
(c) Machine Broom Refills.
(d) Lubricating Oils and Greases, etc.

Forms obtainable from the TOWN CLERK, Poplar Town Hall, Bow Road, E.3, to whom Tenders must be delivered not later than 7 p.m. on WEDNESDAY, 22nd February, 1961.

BOROUGH OF NEATH.

ANNUAL TENDERS FOR MATERIALS AND HAULAGE.

The NEATH CORPORATION invite TENDERS for the UNDERMENTIONED for the period of 12 months from 1st April, 1961, to 31st March, 1962:—

(a) Tarmacadam and Bituminous Macadam.
(b) Broken Stone and Chippings.
(c) Cement Paving, Kerbing and Channelling.
(d) Haulage (Lorries and Horse and Cart).
(e) Paint, Varnish, etc.
(f) Petrol.

Conditions, Specifications and Forms of Tender may be obtained from the Borough Engineer, Gwyn Hall, Neath.

Tenders shall be sent in a plain sealed envelope, which shall not bear the name or mark indicating the sender, but shall be endorsed "Tender for ———," and delivered to me not later than Noon on SATURDAY, 11th February, 1961.

D. KING DAVIES,
Town Clerk.

Town Hall,
Neath.
19th January, 1961.

CITY OF ST. ALBANS.

16 OLD PEOPLE'S FLATLETS—MOUNT PLEASANT, 1.

TENDERS are invited for the ERECTION of OLD PEOPLE'S FLATLETS at Mount Pleasant.

The works comprise 16 Bed-sitting-room Flatlets, a Common Room, Bathrooms, Laundry, Boiler Room, etc., and two Garages.

Bills of Quantities and Form of Tender can be obtained from, and Drawings inspected at, the Office of the City Engineer, 16 St. Peter's Street, St. Albans.

Tenders, sealed in the endorsed envelope provided, to reach the undersigned not later than 7th MARCH, 1961.

B. V. ENTWISTLE,
Town Clerk.

CITY OF LANCASTER.

HIGHWAYS COMMITTEE.

The LANCASTER CORPORATION is prepared to receive TENDERS for the SUPPLY and DELIVERY of MATERIALS for the 12 months commencing 1st April, 1961, for the FOLLOWING, according to the printed Schedules and Specifications:

Brushes; Manhole Covers and Gully Gratings; Gravel and Sand; Cement; Bitumen Macadam; Concrete Flags, Kerbs and Channels; Road Stones and Chippings; Sandstone Flags and Kerbs.

Form of Tender and further particulars may be obtained at the Offices of the City Engineer, Town Hall, Lancaster.

Tenders must be addressed to the Town Clerk, Town Hall, Lancaster, in plain sealed envelopes endorsed "Tender for Materials," but not bearing any name or mark indicating the sender, and to be delivered not later than 10 a.m. on FRIDAY, 17th February, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

J. D. WADDELL,
Town Clerk.

Town Hall,
Lancaster.
26th January, 1961.

OSGOLDCROSS RURAL DISTRICT COUNCIL.

CRIDLING STUBBS—CONTRACT NO. 4.

SEWERAGE AND SEWAGE DISPOSAL.

TO CONTRACTORS.

The above-named Council invite TENDERS for the EXECUTION of SEWERAGE and SEWAGE DISPOSAL WORKS, comprising the Furnishing and Laying of about 700yd. of 6in. Spun-iron and Stoneware Pipe Sewers, Lateral Connections, Manholes, etc., the Construction of a Sewage Ejector Station and Sewage Disposal Works comprising of a Sedimentation Tank, Humus Tank, Sludge Drying Beds, and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to D. BALFOUR AND SONS, MM.I.C.E., 131 Victoria Street, Westminster, London, S.W.1, accompanied by a cheque deposit of £10, made payable to the Osgoldcross Rural District Council, not later than 20th FEBRUARY, 1961, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and the receipt of all printed documents after the Contract has been let.

It is essential that the contractor shall have had considerable experience of similar works and be prepared to furnish security with an approved society for the fulfilment of the Contract.

Tenders, in a plain envelope addressed "Tenders for Sewerage," must be sent to the undersigned by a date to be given by the Engineers.

The lowest or any Tender will not necessarily be accepted by the Council.

JOHN W. BLAND,
Clerk of the Council.

Council Offices,
Tanshelf House,
15 Front Street,
Pontefract, Yorks.

CONTRACTS

ROYAL COUNTY OF BERKSHIRE.

BIENNIAL TENDERS—1961-63.

The COUNTY COUNCIL invite TENDERS for the ITEMS SPECIFIED BELOW for the two years ending 31st March, 1963:

(1) Hire of Steam, Diesel and Petrol Rollers.
(2) Mechanical Haulage.
(3) Heating and Planing.
(4) Laying Plastic White Lines.
(5) Fixing Cats-eyes.
(6) Supplying Traffic Signs.

Forms of Tender, Conditions, etc., may be obtained from the COUNTY SURVEYOR, Shire Hall, Reading, upon receipt of a stamped addressed envelope.

Completed Tenders should be returned, in the envelope provided, not later than 12 Noon on THURSDAY, 16th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BEDFORDSHIRE COUNTY COUNCIL.

FENCING.

B.557 —VICARAGE FARM, WOOTTON.
B.486 —NORTHALL ROAD, BILLINGTON.
C.5 —BROOK FARM, SWINESHEAD.
C.15 —STAFFORD CAUSEWAY.
C.40 —FULLER'S HILL, WILDEN.
C.249 —CASTLE HILL, TOTTERNHOE.
UC.113—KITCHEN END FARM, PULLOXHILL.

TENDERS are invited for the PROVISION and ERECTION on the ABOVE SITES of approx. the FOLLOWING:

152 lin. yd. Wooden Post and Strained Wire Fencing.
241 lin. yd. Wooden Post and Three-rail Fencing.
381 lin. yd. Concrete Post and Wire Chain Link. Fence.
32 lin. yd. Creosoted Softwood Palisade Fencing.
24 lin. yd. Cleft Oak Close-boarded Fence.
173 lin. yd. Nailed Wooden Post and Four-rail Fence.

Tender documents may be obtained from the County Surveyor, Dents Road, Bedford, on payment of a deposit of £2, returnable on receipt of a bona-fide Tender which must be delivered to the undersigned on or before FRIDAY, 24th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

GEORGE BREWIS,
Clerk of the County Council.

Shire Hall,
Bedford.
January, 1961.

COUNTY BOROUGH OF DEWSBURY.

POLICE UNIFORM CLOTHING.

TENDERS are invited for the SUPPLY of POLICE UNIFORM CLOTHING, including Headgear, Mackintoshes, Leggings, Gloves (leather), Shirts, Collars and Ties, for 1961.

Forms of Tender, etc., may be obtained from the Chief Constable, Town Hall, Dewsbury.

Tenders, in plain sealed envelopes endorsed "Police Uniform Clothing," must be delivered to me on or before the 28th FEBRUARY, 1961.

A. NORMAN JONES,
Town Clerk.

Town Hall,
Dewsbury.
23rd January, 1961.

CITY OF CARDIFF.

CITY SURVEYOR'S DEPARTMENT.

FIXED-PRICE TENDERS are invited for the FOLLOWING:

The Conversion of the Pool at Victoria Park, Cardiff, into a Children's Paddling Pool and an Ornamental Pool.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, at whose Office the Conditions of Contract may be inspected, and to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Paddling Pool—Victoria Park," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than THURSDAY, the 23rd February, 1961.

The envelope must not bear the name of, or any mark indicating the identity of, the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
January, 1961.

URBAN DISTRICT COUNCIL OF KIDSGROVE.

The Council invites TENDERS for the SUPPLY of the FOLLOWING MATERIALS as and when required during the year ending 31st March, 1962:—

(1) Precast Concrete Kerbs, Edgings, Quadrants, Flags and Channels.
(2) Road Tar, Tar Bitumen Compounds and Bitumen Emulsions.
(3) Tarred and Bituminous Granite—Limestone Macadam and Bituminous Sealing Grit.
(4) Road Stone, Chippings and Gravel.
(5) Salt Glazed Ware Pipes and Fittings.
(6) Concrete Aggregates (Lime, Gravel and Sand).
(7) Petrol, Gas Fuel Oil for Vehicles, Diesel Oil and Fuel Oil.
(8) Salt.
(9) Cement.
(10) Galvanised Open Top Storage Tanks.
(11) Dustbins.
(12) Rebristling Mechanical Road Sweeper Brushes (Lewin).
(13) Sanitary Goods (White Fireclay Sinks, W.C. Pans, Lavatory Basins).

Specifications, General Conditions and Forms of Tender may be obtained from the Engineer and Surveyor, Town Hall, Kidsgrove, Staffs.

Tenders, in plain sealed envelopes, bearing no name or mark indicating the name of the sender, but endorsed "Tender for Materials," should be delivered to me not later than 12 Noon on 16th FEBRUARY, 1961.

The Council does not bind itself to accept the lowest or any Tender, and reserves the right to divide Tenders.

O. LLOYD HURST,
Clerk of the Council.

Town Hall,
Kidsgrove, Staffs.
January, 1961.

CONTRACTS

CAMBRIDGESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

A.14 AT CAXTON—FINE COLD ASPHALT.

CONTRACT NO. 6022.

TENDERS are invited for SUPPLYING and LAYING BY MACHINE of approx. 350 tons of FINE COLD ASPHALT ¾in. thick on ROUTE A.14 at Caxton.

Documents and details are obtainable from the County Surveyor from the address below.

Closing date: 15th FEBRUARY, 1961.

CHARLES PHYTHIAN,
Clerk of the Council.

Shire Hall,
Castle Hill,
Cambridge.

COUNTY BOROUGH OF BIRKENHEAD.

WATER DEPARTMENT.

TENDERS are invited for the SUPPLY of ALL or ANY of the FOLLOWING CHEMICALS for Water Supply Treatment, for the 12 months ending 31st March, 1962:

(a) Sulphate of Alumina—delivered to Ashgrove Waterworks, Wrexham Road, Chester.
(b) Sulphate of Alumina—delivered to Alwen Reservoir, Cerrig-y-drudion, near Corwen, North Wales.
(c) Precipitated Chalk—delivered to Alwen Reservoir, Cerrig-y-drudion, near Corwen, North Wales.
(d) Hydrated Lime — delivered to Alwen Reservoir, Cerrig-y-drudion, near Corwen, North Wales.

Form of Tender, Specification, etc., from the WATER ENGINEER, 601 Borough Road, Birkenhead.

Closing date for Tenders: 13th FEBRUARY, 1961.

BOROUGH OF WIDNES.

BANKFIELD COUNTY SECONDARY SCHOOL (SECOND STAGE).

FIXED-PRICE TENDERS are invited for the ERECTION of the ABOVE SCHOOL, comprising Classroom Wing of Double-storey Steel-framed Construction, a Gymnasium, Woodwork Room and Minor Rooms, in total approx. 21,000 sq. ft.

Conditions of Contract and Drawings may be inspected, and Bills of Quantities obtained from the Borough Architect, Brendan House, Widnes Road, Widnes, on receipt of a returnable deposit of £2 2s.

Tenders, in the special envelope provided, must be delivered to the undersigned not later than 10 a.m. on MONDAY, 6th March, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
24th January, 1961.

BOROUGH OF ALTRINCHAM.

ASPHALT SURFACING TO CARRIAGEWAY.

STOCKPORT ROAD, A.560.

TENDERS are invited, on a Fixed-price Basis, from contractors experienced in such work, for EXCAVATION in EXISTING CARRIAGEWAY and RE-SURFACING of approx. 1,550 sq. yd. of CARRIAGEWAY in Two-coat Hot Rolled Asphalt conforming to B.S. 594:1958.

Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Town Hall, Altrincham, upon payment of a deposit of One Guinea made payable to the Borough Treasurer.

Tenders must be enclosed in a plain sealed envelope endorsed "Tenders for Resurfacing of Part of Stockport Road, A.560," but shall not bear any name or mark indicating the sender, and delivered to the undersigned not later than 12 Noon on MONDAY, 20th February, 1961.

The Council does not bind itself to accept the lowest or any Tender.

E. GRAHAM THOMAS,
Town Clerk.

Town Hall,
Altrincham.
January, 1961.

HAMBLEDON RURAL DISTRICT COUNCIL.

PUBLIC CONVENIENCE—CRANLEIGH CAR PARK.

TENDERS are invited from building contractors for the CONSTRUCTION of a BRICK AND TILE PUBLIC CONVENIENCE at Cranleigh Car Park.

Plan, Specification and Form of Tender may be obtained from the Office of the Engineer and Surveyor on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender and the return of all documents. (Cheques should be made payable to the Hambledon Rural District Council, crossed Lloyds Bank Limited, and sent to the Treasurer, Council Offices, Bury Fields, Guildford.)

Tenders, in the endorsed envelopes provided, are to be returned to the undersigned not later than 12 Noon on MONDAY, 6th March, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 23rd day of January, 1961.

ROBIN J. GARLAND,
Clerk of the Council.

Council Offices,
Bury Fields,
Guildford, Surrey.

STOURBRIDGE MAIN DRAINAGE BOARD.

DIVERSION OF EASTERN MAIN SEWER.

TENDERS on a Fixed-price Basis, are invited for the CONSTRUCTION IN TUNNEL of approx. 70yd. 12in. and 6in. dia. CONCRETE and GLAZED STONEWARE PIPE SEWERS, together with a Manhole and Service Connections, at BIRMINGHAM STREET, Stourbridge.

Contractors wishing to tender should apply for the documents to the Board's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, 10c Hagley Road, Stourbridge, enclosing a deposit cheque value Two Guineas, made payable to the Stourbridge Main Drainage Board, such deposit to be refunded upon receipt of a bona-fide Tender and the return of all documents. Drawings may be inspected by appointment at the Offices of the Consulting Engineers.

Tenders to be submitted to the undersigned not later than Noon on THURSDAY, 16th February, 1961.

The Board do not bind themselves to accept the lowest or any Tender they may receive.

A. P. DRURY,
Clerk of the Board.

Council House,
Stourbridge.

CONTRACTS

BOROUGH OF MARGATE.

ANNUAL TENDERS, 1961-62.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for the 12 months commencing 1st April, 1961:—

(1) Kerb and Channel and Paving Stones.
(2) Cement.
(3) Concrete Aggregates and Building Sands.
(4) Tarmacadam and Cold Asphalt.
(5) Electric Lamps and Fluorescent Tubes, Electrical Fittings, Cable, etc.
(6) General Ironmongery.
(7) Building Materials.
(8) Small Tools.
(9) Cleaning Materials.
(10) Glass.
(11) Paints and Oils.

Forms of Tender, Specifications and Conditions for the supply of any of the above-mentioned items may be obtained from the Borough Engineer, 33 Grosvenor Place, Margate.

Tenders, in plain sealed envelopes, endorsed "Annual Tenders—Materials," should be sent to the undersigned, by whom they should be received not later than 12 Noon on SATURDAY, 18th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

T. F. SIDNELL,
Town Clerk.

Town Clerk's Office,
40 Grosvenor Place,
Margate.
23rd January, 1961.

BOROUGH OF WORKSOP.

ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY of the FOLLOWING ITEMS during the year commencing 1st April, 1961:—

(1) Common Bricks.
(2) Bituminous Emulsions.
(3) Rebristling of Sweeper Brushes.
(4) Cement.
(5) Concrete Kerb and Flags.
(6) Sand and Gravel.
(7) Dry, Tarred and Bituminised Slag.
(8) Pitching and Blinding Stone.
(9) Road Tar.
(10) Hire of Lorries.
(11) Salt.
(12) Liquid Chlorine.
(13) Stoneware Pipes and Fittings.
(14) Coal.
(15) Soiled or Rock Salt.
(16) Winter Grit.
(17) Truck-mixed Concrete.
(18) Premixed Waterbound Macadam.
(19) Overalls.

Tender Forms may be obtained from the Borough Engineer, Park House, Worksop.

Closing date for Tenders, 20th FEBRUARY, 1961.

RUSSELL C. PHARAOH,
Town Clerk.

Town Hall,
Worksop.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The TOWN MOOR AND PARKS COMMITTEE of the CORPORATION are prepared to receive TENDERS for the ERECTION of a CAFE at EXHIBITION PARK, Newcastle upon Tyne.

Bills of Quantities and Form of Tender may be obtained on application in writing to MESSRS. SIMPSON LAWSON AND PARTNERS, Chartered Architects, Emerson Chambers, Blackett Street, Newcastle upon Tyne, 1, where Plans and Conditions of Contract may be seen.

Sealed Tenders must be delivered to the undersigned not later than 12 Noon on the 14th FEBRUARY, 1961.

No Tender will be accepted unless received in a plain envelope bearing the words "Tender for Cafe—Exhibition Park." The envelope must not bear any name or mark indicating the sender.

The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne.
January, 1961.

BOGNOR REGIS URBAN DISTRICT COUNCIL.

SUPPLY OF MATERIALS AND MOTOR HAULAGE.

FIXED-PRICE TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS and MOTOR HAULAGE for the period 1st April, 1961, to 31st March, 1962:—

(1) Tar (Pressure Applied).
(2) Tarmacadam.
(3) Ballast, Sand, Shingle, Bricks.
(4) Cement.
(5) Labour (Scavenging).
(6) Concrete Paving Slabs, Kerb, Channel and Quadrants.
(7) Plastic Deck Chair Material.
(8) Motor Haulage.
(9) Motor Fuel.

Forms of Tender upon application to E. B. WILLMOTT, Engineer and Surveyor, Town Hall, Bognor Regis.

Tenders, on the form provided, enclosed in the envelope supplied, endorsed "Tender for ——," must be delivered to the Clerk of the Council, Town Hall, Bognor Regis, not later than SATURDAY, 25th February, 1961.

R. W. I. HILL,
Clerk of the Council.

Town Hall,
Bognor Regis.
January, 1961.

URBAN DISTRICT OF KEARSLEY.

ANNUAL TENDERS—1961/62.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for 12 months commencing 1st April, 1961:

(1) Concrete Kerbs and Flags.
(2) Coated Macadam.
(3) Fine Cold Asphalt.
(4) Salt Glazed Ware Pipes and Fittings.
(5) Washed Sand and Local Broken Stone.
(6) Derv.

Tenderers should apply to the Surveyor at the Town Hall, Kearsley, for particulars, etc., and Tenders, in plain sealed envelopes endorsed with the material for which the Tender is made must be received by the undersigned not later than 10 a.m. on the 20th FEBRUARY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

HAROLD GOMM,
Clerk of the Council.

Town Hall,
Kearsley,
Bolton, Lancs.

CONTRACTS

THE HASTINGS CORPORATION.

TENDERS are invited for the SUPPLY and DELIVERY of GROCERIES, MEAT, FISH, MILK, VEGETABLES and FRUIT and other items to VARIOUS ESTABLISHMENTS for a period of 12 months commencing on 1st April, 1961.

Tenders, under cover in plain envelopes, endorsed in accordance with instructions, must be delivered at the Town Hall, Hastings, not later than 12 Noon on 15th FEBRUARY, 1961.

Forms of Tender can be obtained from the undersigned.

The Corporation do not bind themselves to accept the lowest or any Tender, and reserve the right to accept any Tender in part only.

N. P. LESTER,
Town Clerk.

Hastings.

NEWTON - LE - WILLOWS URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the year ending 31st March, 1962:

(1) Concrete Kerbs, Flags, etc.
(2) Cement.
(3) Broken Stone and Chippings.
(4) Sand, Shale and Ashes.
(5) Refined Tar and Bitumen.
(6) Tarspraying.
(7) Scavenging Brushes and Refilling.
(8) Iron Castings.
(9) Pipes and Gullies.
(10) Coated Macadam, etc.

Tender Forms may be obtained from the Engineer and Surveyor, Market Chambers, Market Street, Newton-le-Willows, on receipt of a 6d. stamped addressed envelope.

Tenders, in plain sealed envelopes endorsed "Annual Tenders," must be received by the CLERK OF THE COUNCIL, Town Hall, Market Street, Newton-le-Willows, Lancs., on or before 28th FEBRUARY, 1961.

The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to accept the whole or any part of any Tender.

URBAN DISTRICT COUNCIL OF EPPING.

PERMANENT HOUSING.

CENTRE DRIVE ESTATE.

TENDERS are invited for the ERECTION of 12 1-BEDROOM FLATS, FOUR 2-BEDROOM FLATS and 12 3-BEDROOM HOUSES on a site at Centre Drive, Epping.

Bills of Quantities and Form of Tender (for which application should be made on or before MONDAY, 20th February, 1961) may be obtained on application to the undersigned, accompanied by a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Plans, Drawings and Conditions of Contract may be inspected at the Office of the Surveyor, 91 High Street, Epping.

Tenders, in envelopes provided, endorsed "Tender for Contract 61," bearing no name or mark indicating the sender, must be delivered to me not later than Noon on MONDAY, 3rd April, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

B. HISCOTT,
Clerk of the Council.

Council Offices,
91 High Street,
Epping, Essex.

HASLEMERE URBAN DISTRICT COUNCIL.

GRANITE CHIPPINGS.

The Council invite TENDERS for the SUPPLY of 600 tons of ¾in. gauge GRANITE CHIPPINGS.

Forms of Tender and General Conditions and Specification may be obtained on application from the Engineer and Surveyor, Council Offices, Museum Hill, Haslemere, Surrey.

Tenders must be delivered to the undersigned not later than SATURDAY, 18th February, 1961. Samples of materials must be sent.

The Council do not bind themselves to accept the lowest or any Tender.

J. H. DAVIES,
Clerk of the Council.

Council Offices,
Haslemere, Surrey.

HASLEMERE URBAN DISTRICT COUNCIL.

TAR FOR SURFACE DRESSING.

TENDERS are invited for the SUPPLY and APPLICATION of TAR by Pressure Tank Sprayer to VARIOUS ROADS within the Urban District, amounting to approx. 10,000/12,000 gallons.

Details may be obtained from the Engineer and Surveyor at the undermentioned address.

Tenders must be delivered to the undersigned not later than SATURDAY, 18th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

J. H. DAVIES,
Clerk of the Council.

Council Offices,
Museum Hill,
Haslemere, Surrey.

SALTBURN AND MARSKE-BY-THE-SEA URBAN DISTRICT COUNCIL.

WEST MARSKE SEWERAGE.

The Council invite TENDERS for the CONSTRUCTION of approx. 2,375 lin. yd. of 6in. to 30in. dia. STONEWARE and CONCRETE PIPE SEWERS, part of which are in tunnel, together with the necessary Manholes, etc., and all appurtenant works.

Forms of Tender, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. WATERHOUSE AND ROUNTHWAITE, MM.Inst.C.E., 165 Westmorland Road, Newcastle upon Tyne, 4, upon payment of a deposit of Five Guineas which will be returned on receipt of a bona-fide Tender.

Drawings illustrating the works to be carried out may be inspected at the Offices of the Council's Engineer and Surveyor, Council Offices, Saltburn-by-the-Sea, or the Offices of the Consulting Engineers.

Tenders should be delivered to me, the undersigned, in a plain sealed envelope endorsed "Marske Sewerage," not later than 6th MARCH, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

L. E. HORGAN,
Clerk of the Council.

Council Offices,
Saltburn-by-the-Sea,
Yorkshire.

CONTRACTS

MINISTRY OF TRANSPORT.

MEDWAY MOTOR ROAD.

The MINISTER OF TRANSPORT invites TENDERS for ONE or MORE of the CONTRACTS for the CONSTRUCTION of the MEDWAY MOTOR ROAD; this consists of 25 miles of new Motorway, leaving Trunk Road A.2 near Strood, by-passing the Medway towns Sittingbourne and Faversham, to rejoin A.2 at Brenley Corner.

The Motorway consists of dual 24ft. Carriageways with 1ft. contrasting margins and 10ft. hard shoulders: alternative designs are provided for flexible or rigid pavement. The work includes the Construction of 57 Concrete Bridges, seven Interchanges, the Diversion of Public Highways, Private Accesses and Footpaths, together with all necessary ancillary works.

The work will be divided into three Contracts, as follows:

CONTRACT NO. 2.—West of Medway: Two miles of Motorway, two Interchanges (with A.2 and A.229), and four Bridges.

CONTRACT NO. 3.—Medway to Stockbury: 11¼ miles of Motorway, three Interchanges (with A.229, Gillingham Link and A.249), and 26 Bridges, including two Viaducts 480ft. and 765ft. long, respectively.

CONTRACT NO. 4.—Stockbury to Brenley: 11¾ miles of Motorway, two Interchanges (with A.251 and A.2/A.299), and 27 Bridges, including a Viaduct 375ft. long.

Copies of the Contract documents may be obtained from the Consulting Engineers, MESSRS. FREEMAN, FOX AND PARTNERS, 87 Buckingham Palace Road, London, S.W.1, on payment of a deposit of £25 for Contract No. 2, and £50 each for Contracts Nos. 3 and 4, by cheque made payable to the Minister of Transport. The deposit will be returned if a bona-fide Tender is submitted and not subsequently withdrawn.

Tenders for each Contract should be sent separately in a plain sealed Registered Envelope marked "Tender for Medway Motor Road—Contract No. ——," addressed to the ASSISTANT SECRETARY, Highways Management and Services Division, Ministry of Transport, St. Christopher House, Southwark Street, London, S.E.1, to arrive not later than 4 p.m. on 5th APRIL, 1961.

The Minister does not bind himself to accept the lowest or any Tender.

(Signed) R. B. LANG.
An Under-Secretary.

KENT COUNTY COUNCIL.

A.2/A.20 SITE INVESTIGATION.

TENDERS are invited by not later than Noon, 18th FEBRUARY, 1961, for the MAKING OF BORINGS and CARRYING OUT OF TESTS to establish subsoil conditions at: (1) Various points on A.2 between Woolwich and Rochester; (2) at points over a 4½-mile length of new road south of Dartford; and (3) at various points on proposed Swanley By-pass.

Work will be in accordance with I.C.E. Conditions of Contract and County Council's Specification.

Forms of Tender obtainable from County Surveyor, County Hall, Maidstone, on payment of deposit of £2 2s., returnable on receipt of bona-fide Tender.

G. T. HECKELS,
Clerk of the County Council.

COUNTY BOROUGH OF SOUTHPORT.

MOSS LANE—REINFORCED CONCRETE EJECTOR CHAMBER.

TENDERS are invited for the SUPPLY and CONSTRUCTION of an EJECTOR CHAMBER 9ft. internal dia. and approx. depth 19ft., using Precast Reinforced Concrete Segments.

Forms of Tender, Specifications and Bills of Quantities may be obtained from the BOROUGH ENGINEER, Town Hall, Southport, on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Moss Lane Elector Chamber," must be returned by 27th FEBRUARY.

ROCHFORD RURAL DISTRICT COUNCIL.

CONTRACT NO. 291.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a CLOSE ROAD off GRASMERE AVENUE, Hullbridge, approx. 60yd. in length, together with Footpaths, Verges, Surface Water Drainage, and appurtenant works.

The General Conditions of Contract may be inspected, Tender Form, Specification, Drawing and Bills of Quantities obtained from the Engineer and Surveyor at these Offices on payment of a deposit of Two Pounds which will be refunded upon receipt of a bona-fide Tender, together with the return of all documents.

Sealed Tenders, addressed to the undersigned and endorsed "Tender for Contract 291," are to be delivered to this Office by 12 Noon on 10th MARCH, 1961.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

S. C. HARRIS,
Clerk of the Council.

Council Offices,
Rochford, Essex.
26th January, 1961.

CWMBRAN DEVELOPMENT CORPORATION.

LLANTARNAM ROAD DIVERSION.

TENDERS are invited, on a Fixed-price Basis, for ROAD DIVERSION WORKS at LLANTARNAM ROAD and VICTORIA STREET, Cwmbran. The lengths of the two roads affected are 550yd. and 150yd., respectively. Llantarnam Road is to be 50ft. wide, including two 10ft. Footpaths, and Victoria Street is to be 22ft. wide.

The Carriageways are to be constructed with Gap-graded Stone Foundations and Coated Macadam Surfacing, and the Contract also includes 30,000 cu. yd. of Excavation, the Shaping, Soiling and Seeding of Embankments, the Demolition of a House, Lighting and ancillary works at existing and new road junctions and in connection with the diversion of services.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Chief Engineer, Development Corporation Offices, Cwmbran, Mon., upon payment of a deposit of £2 2s. which will be refunded upon the receipt of a bona-fide Tender.

Tenders must be returned to the undersigned not later than Noon on TUESDAY, 7th March, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

W. K. MORRIS,
General Manager.

Corporation Offices,
Victoria Street,
Cwmbran, Mon.

CONTRACTS

BOROUGH OF RAWTENSTALL.

ANNUAL TENDERS—1961/62.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for the year ending 31st March, 1962:

(1) Coated Macadam for Cold Laying.
(2) Sand and Broken Stone.
(3) P.C. Concrete Kerbs and Flags.
(4) Salt Glazed Ware Pipes and Fittings.
(5) Manhole Covers and Frames.
(6) Gully Grates and Frames.
(7) B.S.S. Galvanised Dustbins.
(8) White Disinfectant Fluid.

Contractors desirous of tendering should apply for full particulars to the Borough Engineer and Surveyor, Town Hall, Rawtenstall, in respect of Items 1 to 6, and to the Chief Public Health Inspector, Health Office, Kay Street, Rawtenstall, in respect of Items 7 and 8.

Completed Tenders, in plain sealed envelopes endorsed "Annual Tenders," must be received by the undersigned not later than TUESDAY, 28th February, 1961.

COLIN CAMPBELL,
Town Clerk.

Town Hall,
Rawtenstall,
Rossendale, Lancs.
23rd January, 1961.

BOROUGH OF OSSETT.

HEALEY SEWERAGE.

TENDERS are invited for the FOLLOWING:

CONTRACT NO. 1.—The Laying of 3,300yd. of 24in. to 6in. dia. Cast-iron, Concrete and Earthenware Pipe Sewers, and 600yd. of 6in. Cast-iron Rising Main, together with Manholes, etc., and the Construction of a Pumping Station.

CONTRACT NO. 2.—The Supply and Erection of Electrically Operated Sewage Pumping Plant in duplicate, each pump to deliver 225 gallons per minute to 100ft. head.

Tender documents may be obtained from the Consulting Engineers, ARNOLD BROOKSBANK AND SON, 48 Sunbridge Road, Bradford, 1, on payment of a deposit of £5 5s. (by cheque, payable to the Ossett Corporation) for each Contract.

Drawings may be seen at the Offices of the Consulting Engineers or at the Borough Surveyor's Office, Town Hall, Ossett.

Tenders are to be on a Fixed-price Basis.

Tenders, complete with priced Bill of Quantities, etc., enclosed in a plain sealed envelope endorsed "Tender for Healey Sewerage—Contract No. 1" (or "No. 2," as the case may be), must be forwarded to reach me not later than Noon on TUESDAY, the 28th February, 1961.

The lowest or any Tender will not necessarily be accepted, any acceptance being subject to approval by the Ministry of Housing and Local Government.

B. FREEMAN,
Town Clerk.

Town Hall,
Ossett, Yorks.
27th January, 1961.

CITY OF PLYMOUTH.

TENDERS are invited for the SUPPLY and DELIVERY to my PRINCE ROCK DEPOT, Macadam Road, Plymouth, of the FOLLOWING:

1,500 tons Refined Lake Asphalt, in accordance with B.S. 594:1958. Delivery to be made in one consignment or in convenient lots as and when required.

150 tons Flux Oil for use in connection with the above, to form Asphaltic Cement, in accordance with B.S. 594:1958. To be delivered in 10-ton lots as and when required.

No Forms of Tender will be issued.

No Tender will be received except in a plain sealed envelope addressed to the Town Clerk, Pounds House, Plymouth, which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders, with other appropriate details, are to be received by 10 a.m. on 15th FEBRUARY, 1961.

J. ACKROYD,
City Engineer and Surveyor.

Guildhall,
Plymouth.

STROUD URBAN DISTRICT COUNCIL.

COUNCIL HOUSE MAINTENANCE.

LIST OF PAINTING CONTRACTORS.

Applications are invited from painting contractors who wish to TENDER for the EXTERIOR PAINTING of COUNCIL HOUSES during the period April/September, 1961.

The Contracts will vary from £200-£2,000, and applicants must state the total value of work which they can be held to complete under contract within the period stated.

The Council reserve the right to reject any application without giving reason.

Applications, which must be received by the undersigned not later than Noon, FRIDAY, 17th February, 1961, should be accompanied by full particulars of similar works recently carried out, together with details of labour resources.

Tenders will be invited from contractors whose names are placed on the official list prepared from the applications received.

H. S. GIBBONS,
Clerk of the Council.

Council Chambers,
High Street,
Stroud, Glos.

STROUD URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and ERECTION of 12 PREFABRICATED GARAGES on two sites on housing estates at PAYNES PLACE, DUDBRIDGE, and THOMPSON ROAD, UPLANDS, on prepared bases.

Form of Tender may be obtained from the Engineer and Surveyor.

Tenders, in sealed envelopes, marked "Garages on Housing Estates," should be sent to the undersigned not later than SATURDAY, 18th February, 1961. The Council does not bind itself to accept the lowest or any Tender.

H. S. GIBBONS,
Clerk of the Council.

Council Chambers,
High Street,
Stroud, Glos.

EDINBURGH CORPORATION.

SUPPLY OF EQUIPMENT.

OFFERS are invited for the SUPPLY of 20 MOBILE HUTS.

Apply to CITY ENGINEER, 329 High Street, Edinburgh, for detailed Quotation Form, which must be returned by 13th FEBRUARY.

CONTRACTS

OXFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

The Oxfordshire County Council invite applications from contractors (who have not already been accepted) for inclusion in the Council's list of approved contractors, who will be asked to TENDER for the SUPPLY of the UNDERMENTIONED MATERIALS for the year commencing 1st April next:—

(1) Bituminous and Tarmacadam and for the Laying of same.
(2) Dry Stone and Chippings.
(3) Refined Tar.
(4) Tar and Bitumen Compounds and Cold Emulsions.
(5) Cement.
(6) Ready Mixed Concrete.
(7) Laying of Plastic White Lines.

Applications should reach the County Surveyor, 8 New Road, Oxford, not later than 18th FEBRUARY, 1961.

The Council do not bind themselves to accept the lowest or any Tender received from time to time, and reserve to themselves the right of dividing contracts between one or more persons tendering.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford.
January, 1961.

COUNTY BOROUGH OF READING.

KILN ROAD FOUL SEWER.

TENDERS are invited for CONSTRUCTION of 640 lin. yd. of 9in. FOUL SEWER at depths up to 16ft. in Kiln Road, Emmer Green, Reading.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by Noon on 7th MARCH, 1961. No Tender considered unless enclosed in plain sealed envelope endorsed "Kiln Road Foul Sewer," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

AIRPORT EXTENSIONS.

Contractors interested in submitting a TENDER for the CONSTRUCTION of AIRPORT EXTENSIONS, comprising Taxiways, Aprons and Roads, mainly by soil stabilisation, together with Surface Water and Foul Water Sewers, and incidental works in connection therewith, should submit their names, together with a deposit of £2, before 17th FEBRUARY to the Borough Engineer and Surveyor for inclusion on a list of contractors from whom Tenders will be invited.

The deposit will be refunded on receipt of a bona-fide Tender and/or return of all loaned documents.

Sealed Tenders, addressed to the undersigned, and endorsed "Southend Municipal Airport Extensions," are to be delivered to this Office by 3 p.m. on a date to be specified, and no Tender received thereafter will be considered.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

Municipal Buildings,
Southend-on-Sea.

BOROUGH OF SUTTON AND CHEAM.

DRAINAGE AND ROADWORKS.

ST. NICHOLAS RECTORY SITE, SUTTON.

The CORPORATION invites TENDERS for the CONSTRUCTION of a ROAD and Sewers, and the DEMOLITION of an EXISTING BUILDING at ST. NICHOLAS RECTORY SITE, Sutton.

Conditions of Contract and Drawings may be inspected, and copies of the Specification, Bill of Quantities and Form of Tender obtained, on payment of a £2 2s. deposit (returnable on submission of a bona-fide Tender) from C. NEEDHAM, M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., at the address given below. Cheques should be made payable to the Sutton and Cheam Borough Council.

Tenders, on the prescribed form, sealed in the envelope provided, bearing no indication of the name of the sender, and endorsed "Tender for Drainage and Roadworks—St. Nicholas Rectory Site, Sutton," are to be delivered to the undersigned not later than Noon on TUESDAY, 28th February, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton, Surrey.
January, 1961.

CITY OF CAMBRIDGE.

CHESTERTON LANE IMPROVEMENT.

TENDERS are invited for the IMPROVEMENT of CHESTERTON LANE at the junction with Castle Hill.

The work consists of the Demolition of the existing Brick Wall and Construction of approx. 100 lin. yd. of a new Mass Concrete and Brick Retaining Wall, the Construction of approx. 350 sq. yd. of new Footpath, and approx. 375 sq. yd. of Carriageway, together with other ancillary works.

The Bills of Quantities, Specification and Conditions of Contract may be obtained from the City Engineer and Surveyor, The Guildhall, Cambridge, on a deposit of Three Guineas. The deposit will be returned on the receipt of a bona-fide Tender.

Tenders must be delivered to the Guildhall, Cambridge, in the official envelope provided, not later than 3 p.m. on THURSDAY, 9th March, 1961.

The lowest or any Tender will not necessarily be accepted.

ALAN H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.
January, 1961.

URBAN DISTRICT OF FELTHAM.

TENDERS are invited for the EXTERNAL REPAINTING of 867 DWELLINGS and 61 Garages on VARIOUS ESTATES owned by the Council.

The above work will be let in four Contracts, and firms wishing to apply for Contract documents and Specification should apply to the Engineer and Surveyor, Council Offices, Feltham, Middlesex, on or before the 15th FEBRUARY, 1961.

M. W. COUPE,
Clerk of the Council.

CONTRACTS

COUNTY BOROUGH OF BRIGHTON.

WHITEHAWK HOUSING SITE, SECTION I.

ROAD AND SEWER WORKS.

TENDERS are invited for the CONSTRUCTION of ROADS and SEWERS at WHITEHAWK HOUSING SITE, Brighton.

The work will include the construction of:—
Approx. 4,600 sq. yd. of Carriageway in Dry Lean Concrete.
Approx. 1,900 lin. yd. of Kerbing.
Approx. 3,000 sq. yd. of Paving in Artificial Stone and Construction of Garage Crossings.
Approx. 1,100 lin. yd. of 6in. Salt Glazed Sewer.
Surface Water Drainage, etc.

The Bill of Quantities and contract documents may be obtained and the General Conditions of Contract and Drawings inspected at the Office of D. J. HOWE, M.I.C.E., M.I.Mun.E., Borough Surveyor, Engineer and Planning Officer, 26-30 King's Road, Brighton.

Tenders, with fully priced Bill of Quantities and other documents, must be returned in the envelope provided, not bearing any name or mark indicating the sender, not later than 22nd FEBRUARY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton, 1.
January, 1961.

BOROUGH OF HALESOWEN.

SURFACE DRESSING—1961/62.

TENDERS are invited for SURFACE DRESSING, with materials to be supplied by the Corporation, of approx. 150,000 sq. yd. of CARRIAGEWAYS and 10,000 sq. yd. of Footpaths in the Borough.

Forms of Tender, Specification, and details may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen.

Tenders, sealed in the envelopes provided, must reach me not later than First Post on SATURDAY, 18th FEBRUARY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

J. B. McCOOKE,
Town Clerk.

Council House,
Halesowen.
26th January, 1961.

BOROUGH OF HALESOWEN.

SUPPLY OF MATERIALS, ETC.—1961/62.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS and LABOUR during the year ending 31st March, 1962:

Laying of Kerbs and Channels (13).
Laying of Concrete Flags and Blue Brick Paving (14).
Supply of Road Tar for Surface Dressing (15).

Particulars may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen.

Tenders, sealed in the envelopes provided, must reach me not later than First Post on SATURDAY, 18th FEBRUARY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

J. B. McCOOKE,
Town Clerk.

Council House,
Halesowen.
26th January, 1961.

WORTLEY RURAL DISTRICT COUNCIL.

ANNUAL SUPPLIES.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS and LABOUR for the 12 months commencing 1st April, 1961:—

(1) Cement.
(2) Tar and Bitumen for Surface Dressing in Bulk, in Barrels, and for Supply and Apply.
(3) Bituminous Cold Emulsion in Bulk, in Barrels, and for Supply and Apply.
(4) Tarmacadam and Bituminous Macadam (Granite, Limestone and Slag).
(5) Cold Asphalt and Sealing Grit.
(6) Clean Chippings and Dust (Granite, Limestone and Slag).
(7) Walling Stone, Broken Stone and Pitching.
(8) Sand and Gravel.
(9) Concrete Flags, Kerbs, Edging and Channel Blocks.
(10) Salt Glazed Ware Pipes.
(11) Bricks.
(12) C.I. Gully Grates and Frames and Manhole Covers and Frames.
(13) Tools and Implements.
(14) Lubricating Oils and Paraffin.
(15) Hire of Plant and Transport.

Specifications of materials required (where appropriate) can be inspected at the Office of the Council's Engineer and Surveyor, Council Offices, Grenoside, Sheffield, from whom Forms of Tender may be obtained.

Tenders must reach the undersigned not later than Noon on the 20th FEBRUARY, 1961, and must be delivered, in the envelope provided, which shall not bear any name or mark indicating the sender.

The Council reserves the right to divide contracts between two or more contractors, and does not bind itself to accept the lowest or any Tender.

ADRIAN M. KELLY,
Clerk of the Council.

Council Offices,
Grenoside,
Sheffield.

GUILDFORD, GODALMING AND DISTRICT WATER BOARD.

NORTHEND FARM, CHIDDINGFOLD—6IN. DIA. MAIN.

MAINLAYING CONTRACT.

The Board invite TENDERS for the LAYING and JOINTING of the FOLLOWING WATER MAINS, together with the necessary Specials and Fittings, all with Tyton and Bolted Gland Joints:

2,060 lin. yd. of 6in. dia. Spun-iron Main.

Form of Tender, Bill of Quantities and Specification may be obtained on application to the Chief Engineer, Branksome, Filmer Grove, Godalming, Surrey, on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Plans and General Conditions of Contract may be inspected by appointment at the Chief Engineer's Office at Godalming.

Sealed Tenders, in plain envelopes endorsed "Northend Farm—Chiddingfold 6in. dia. Main," must reach the undersigned at the Municipal Offices, High Street, Guildford, not later than 12 Noon on MONDAY, the 27th February, 1961.

The Board do not bind themselves to accept the lowest or any Tender.

HERBERT C. WELLER,
Clerk to the Board.

CONTRACTS

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

WINTON DRAINAGE FOUL SEWERS—

CONTRACT NO. 4.

TENDERS are invited for the CONSTRUCTION of 770 lin. yd. of Twin 24in. dia. SPUN-IRON SIPHON, and the following lengths of CONCRETE TUBE FOUL SEWER: 537 lin. yd. 30in. dia., 306 lin. yd. 27in. dia., 12 lin. yd. 24in. dia., 153 lin. yd. 18in. dia., 37 lin. yd. 66in. dia. and 479 lin. yd. of 54in. dia. Storm Water Overflow.

Documents and Drawings obtainable from Borough Engineer, Town Hall, Bournemouth, upon payment of £2 2s. which will be refunded on receipt of a bona-fide Tender (not subsequently withdrawn) and the return of all documents.

Tenders to reach me by 11th March, 1961.

A. LINDSAY CLEGG,
Town Clerk.

BOROUGH OF KETTERING.

DEMOLITION OF PROPERTY—GREEN LANE/LITTLE BARTON.

TENDERS are invited from experienced demolition contractors for the EXECUTION of the ABOVE WORK.

Documents, with Form of Tender, may be obtained from H. G. PERRY, M.I.Mun.E., M.R.S.H., Borough Engineer and Surveyor, 3 Gold Street, Kettering, on payment of a deposit of £2 2s. which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Demolition," must be delivered to the undersigned by Noon on SATURDAY, 4th March, 1961.

The Council does not bind itself to accept the lowest or any Tender.

D. DUNSFORD PRICE,
Town Clerk.

Town Clerk's Office,
Huxloe Place,
Kettering, Northants.
January, 1961.

EXMOUTH URBAN DISTRICT COUNCIL.

CONTRACT "H."

ADDITIONAL RISING MAIN FROM DOTTON PUMPING STATION.

The above Council invites TENDERS for the INSTALLATION of a RISING MAIN commencing near their Pumping Station at Dotton and terminating at a point in the Budleigh Salterton to Newton Poppleford Road adjacent to the entrance to Bicton House.

The work involves the Excavation for, and Laying of, approx. 2,500yd. of 12in. dia. Spun-iron Pipes, together with the necessary Valves and Valve Chambers, etc. Pipes, valves and specials will be provided by the Council.

The Drawings may be seen, and the Specification, Schedule of Quantities and Form of Tender obtained on application to G. H. HILL AND SONS (MANCHESTER), Civil Engineers, 51 Mosley Street, Manchester, 2, and with deposit of a cheque for Five Guineas made payable to G. H. Hill and Sons (Manchester). This sum will be returned to the tenderer provided that he submits a bona-fide Tender not subsequently withdrawn.

Copies of the Drawings may be obtained from G. H. Hill and Sons upon payment of the sum of One Guinea, which sum is not returnable. Alternatively, Drawings and documents may be inspected at the Office of the Surveyor and Water Engineer, Town Hall, Exmouth.

Sealed Tenders, endorsed "Additional Rising Main from Dotton," and addressed to the Chairman of the Council, Town Hall, Exmouth, must be delivered not later than Noon on the 27th FEBRUARY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

Dated this 24th day of January, 1961.

R. S. BAGSHAW,
Clerk and Solicitor.

WESSEX REGIONAL HOSPITAL BOARD.

PARK PREWETT GROUP HOSPITAL MANAGEMENT COMMITTEE, NO. 10, BASINGSTOKE, HANTS.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED to Park Prewett Hospital during the six months commencing 1st April, 1961:—

Contract No.	Details
(1)	Malt Liquors.
(2)	Earthenware.
(3)	Leather and Grindery.
(4)	Boots and Shoes.
(5)	Paint Brushes.
(6)	Paints and Oils.
(7)	Oils—Engineering and Farm.
(8)	Petrol and Fuel Oils.

Forms of Tenders will be supplied on written application, enclosing stamped addressed foolscap envelope, to the undermentioned. Tenders must be sent in sealed envelopes, addressed to the Group Secretary as below, marked "Tender for ——," and must be delivered by post or otherwise not later than 9 a.m. on 28th FEBRUARY, 1961.

FREDK. HALES,
Group Secretary.

Park Prewett Group Hospital
Management Committee,
Basingstoke, Hants.

HOLMEWOOD AND STILTON INTERNAL DRAINAGE BOARD.

WHITTLESEY MERE PUMPING STATION.

TENDERS are invited for the CONSTRUCTION of WHITTLESEY MERE PUMPING STATION, to be carried out between 10th April, 1961, and 31st December, 1961. The Pumping Station is of Steel Sheet Piling and Reinforced Concrete Construction, with a Brick Pumphouse, and the works involve: 2,000 cu. yd. Excavation; 3,200 cu. ft. Concrete; 120 sq. yd. 11in. Cavity Brickwork; 3,300 sq. ft. Steel Sheet Piling; 50 lin. yd. Discharge Pipeline 30in.-42in. dia.

Contract documents may be obtained from the Engineer, Great Ouse River Board, Elmhurst, Brooklands Avenue, Cambridge, upon receipt of a deposit of £5 5s. Cheques should be made payable to the Holmewood and Stilton Internal Drainage Board. The deposit will only be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, to be enclosed in a plain sealed envelope endorsed "Whittlesey Mere Pumping Station," are to be addressed to the Clerk, Holmewood and Stilton Internal Drainage Board, 35 Priestgate, Peterborough, and are to be received not later than 9.30 a.m., MONDAY, 6th March, 1961.

G. WYMAN ABBOTT,
Clerk of the Board.

CONTRACTS

WEST PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY.

INDUS BASIN PROJECT.

ADVANCE NOTICE OF INTENT TO INVITE TENDERS FOR THE PRODUCTION OF SAND AND AGGREGATES AND RIPRAP.

In connection with the construction of a number of large canals and several barrages to be undertaken as part of the Indus Basin Project in West Pakistan, the above Authority intends to call for TENDERS for the PRODUCTION, in West Pakistan, of SAND and AGGREGATES for CONCRETE and STONE for RIPRAP and REVETMENTS. The work will be carried out under the Indus Basin Development Fund, which will be administered by the International Bank for Reconstruction and Development (World Bank).

The work will consist of Producing, Processing and Stockpiling approximately 2.5 million tons of Sand and Aggregates for Concrete and Masonry, and approximately 6.5 million tons of Stone for Riprap. The work will be covered by two schedules, one for the production of sand and aggregates, and the other for production of stone, and Tenders may be submitted for either or both schedules. The production and stockpiling of the materials will take place at two or more quarry sites or deposits which will be designated and made available to the contractor(s) by the Authority. Except for such sites and raw material, the contractor(s) will be required to supply all plant, supplies, other materials, and labour to produce the specified sizes and grades of sand, aggregates and riprap.

Invitations to submit Tenders and Specifications for the work will be issued only to contractors who have been prequalified by the Authority. For this purpose, those firms which are interested in the work are requested to submit information in support of their qualifications to undertake the work. Such information should include, but is not limited to, the complete name and address of the firm or company, its country of domicile, its legal organisation or constitution, proof of its financial capacity, references, and evidence of its technical capability and experience in carrying out similar work. The specified information and documents should be prepared in two copies and delivered on or before 15th FEBRUARY, 1961, to the Authority's Consultants, TIPTON AND KALMBACH, INC., the original addressed to P.O. Box 589, Lahore, West Pakistan, and the copy to 831 Fourteenth Street, Denver 2, Colorado, U.S.A.

Contractors considered qualified to undertake the above work will subsequently be sent the Specifications and be invited to submit a Tender.

PROJECT DIRECTOR (LINKS),
West Pakistan Water and Power
Development Authority.

THE HASTINGS CORPORATION.

TENDERS are invited for the SUPPLY of ¾in. and ½in. CLEAN GRANITE CHIPPINGS for SURFACE DRESSING.

Forms of Tender may be obtained from the Borough Engineer, 37 Wellington Square, Hastings, and must be returned to the undersigned not later than 10 a.m. on MONDAY, the 13th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

CARSHALTON URBAN DISTRICT COUNCIL.

ROADS AND SEWERS—WRYTHE LANE INDUSTRIAL SITE.

TENDERS are invited for the CONSTRUCTION of approx. 630 sq. yd. of REINFORCED CONCRETE CARRIAGEWAY, 90 lin. yd. of 6in. and 9in. GLAZED STONEWARE PIPE SEWER, and associated work.

Tender documents may be obtained from, and Drawings and Conditions of Contract may be inspected during office hours at, the Office of the Engineer and Surveyor, Stone Court, The Grove, Carshalton.

Tenders must be returned to the undersigned, in a plain sealed envelope bearing no indication as to the sender, and endorsed "Roads and Sewers—Wrythe Lane Industrial Site," by not later than 12 Noon on WEDNESDAY, 22nd February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

C. H. DURRANT,
Clerk of the Council.

District Council Offices,
The Grove,
Carshalton, Surrey.

WELWYN RURAL DISTRICT COUNCIL.

DIGSWELL SEWERAGE.

TO CONTRACTORS.

The above-named Council invite TENDERS for the EXECUTION of the LAYING of about 6,000yd. of 6in. STONEWARE SEWERS, Manholes, House Drains, Ventilators, etc., and about 1,000yd. of 4in. Spun-iron Pumping Main, and the Construction of a Sewage Pumping Station, and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to D. BALFOUR AND SONS, MM.I.C.E., 131 Victoria Street, Westminster, S.W.1, together with a cheque deposit of £10 made payable to the Welwyn Rural District Council, not later than TUESDAY, 21st February, 1961, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and the receipt of all printed documents after the Contract has been let.

It is essential that the contractor shall have had considerable experience in similar works, and be prepared to furnish security with an approved society for the fulfilment of the Contract.

The lowest or any Tender will not necessarily be accepted by the Council.

H. STUTCHBURY,
Clerk to the Welwyn R.D.C.

Council Offices,
By-pass Road,
Welwyn, Herts.

BATH FIRE BRIGADE AND AMBULANCE SERVICE.

TENDERS are invited for the REPLACEMENT of an EXISTING SHORT-WAVE RADIO AMBULANCE CONTROL SCHEME.

Copies of the Specification, etc., obtainable from the Chief Fire Officer, Central Fire Station, Cleveland Bridge, Bath, and completed Tenders should be submitted to the undersigned not later than 10 a.m. on TUESDAY, 28th February, 1961.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.
24th January, 1961.

CONTRACTS

NORTH OF SCOTLAND HYDRO-ELECTRIC BOARD.

AWE PROJECT—CRUACHAN SECTION.

TENDERS are invited for CIVIL ENGINEERING WORKS, comprising the Construction of an Underground Power House, together with Shafts, Tunnels, and associated works, in the Pass of Brander, near Loch Awe Village, Argyllshire.

Tender documents, obtainable in mid-February from the Consulting Engineers, MESSRS. JAMES WILLIAMSON AND PARTNERS, Chartered Civil Engineers, 219 St. Vincent Street, Glasgow, C.2. Deposit £5 (returnable).

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the FOLLOWING PRIVATE STREET WORKS at HORLEY:

(1) Chevne Walk (approx. 650 lin. yd.).
(2) Fairfield Avenue (approx. 470 lin. yd.).
(3) The Ridgeway (approx. 300 lin. yd.).
(4) Upfield (Part) (200ft. dia. Roundabout).
Including Kerbing, Edging, Tarmacadam Surfacing to Carriageways and Footways.

Documents, obtainable from Office of County Engineer, where Drawings may be inspected, returnable by 18th FEBRUARY, 1961, to CLERK OF THE COUNCIL, County Hall, Kingston-upon-Thames.

No Tender will be received except in a plain sealed envelope bearing the words "Tender for ——."

BOROUGH OF REIGATE.

TENDERS are invited for IMPROVEMENT by SUPERELEVATION of the LONDON - BRIGHTON TRUNK ROAD, A.23, at MERSTHAM, approx. 730 tons Dense Tarmacadam, and attendant Kerb and Pathworks.

Apply Borough Surveyor for Contract documents and Plan inspection.

Sealed Tenders, in envelopes provided, to the undersigned by 18th FEBRUARY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

HEBER DAVIES.
Town Clerk.

Town Hall,
Reigate.
2nd February, 1961.

PORTLAND URBAN DISTRICT COUNCIL.

COAST PROTECTION WORKS.

TENDERS are invited for the CONSTRUCTION of approx. 67yd. of MASS CONCRETE SEA WALL, and incidental works, at WEST WEARES, CHESIL, Portland.

Tender documents, to be obtained from me, should be returned in a plain sealed envelope to the Clerk of the Council not later than 28th FEBRUARY, and should be endorsed "Sea Wall—Chesil."

The Council does not bind itself to accept the lowest or any Tender.

E. B. CULLIN,
Engineer and Surveyor.

Council Offices,
Portland.

WIGSTON URBAN DISTRICT COUNCIL.

ANNUAL CONTRACTS 1961/62.

TENDERS are invited for the SUPPLY of MATERIALS and HIRE OF PLANT for the year ending 31st March, 1962:

(1) Heating and Planing Works.
(2) Rolling Works.
(3) Hire of Lorries.
(4) Ashes.
(5) Rebristling Brushes (Lewin Mechanical Sweeper).
(6) Concrete Kerbs, Edgings and Paving Slabs.
(7) Cement.

Forms of Tender and Particulars may be obtained from the Engineer and Surveyor at the address below.

Tenders, to be returned to the undersigned, in the enveloae provided, not later than 12 Noon on MONDAY, 20th February, 1961.

W. H. GUNNING,
Clerk of the Council.

Council Offices,
Wigston,
Leicester.

BIRMINGHAM TAME AND REA DISTRICT DRAINAGE BOARD.

PERIODICAL CONTRACTS.

TENDERS are invited for the SUPPLY and DELIVERY on a Periodical Contract Basis of the FOLLOWING MATERIALS:

(1) Concrete Aggregates. — Biennial Contract 1961/63.
8,000 tons ¾in. to ¼in. Graded Round Washed Aggregate.
4,000 tons of Washed Coarse Sand for Concrete.
Orders for these approx. quantities will be placed as delivery is required over 24 months ending 31st March, 1963, to suit the Board's construction programme.
(2) Bacteria Bed Media.—Annual Contract 1961/62.
800 tons of 2in. to 4in. Graded Washed Crushed Gravel.
4,500 tons of 1in. to 2in. Graded Washed Crushed Gravel.
Orders for these approx. quantities will be placed as delivery is required over the 12 months ending 31st March, 1962, to suit the Board's construction programme.
(3) Portland Cement. — Annual Contract 1961/62.
1,000 tons in bulk loads not exceeding 8 tons.
100 tons 1cwt. bagged loads in 6-ton loads and upwards.
Orders for these approx. quantities will be placed as delivery is required over the 12 months ending 31st March, 1962, to suit the Board's programme of work.

Tender documents may be obtained from the Engineer to the Board, Rookery Park, Erdington, Birmingham, 24, and applications should mention the materials for which it is intended to submit Tenders.

Tenders, in the envelopes provided, must reach the undersigned not later than First Post on MONDAY, 13th February, 1961.

The Board is not bound to accept the lowest or any other Tenders.

ARTHUR J. WRIGHT,
Clerk to the Board.

Clerk's Office,
Lombard House,
Great Charles Street,
Birmingham, 3.
26th January, 1961.

CONTRACTS

EAST RIDING COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of the FOLLOWING ARTICLES for the year commencing 1st April, 1961:

Accouchment Outfits; Detergents and Soaps; Disinfectants; Floor Sweeping Compounds; Polishes; Textiles, Toilet Rolls.

Full particulars and Forms of Tender may be obtained from the Supplies Officer, County Hall, Beverley.

No Tender will be considered unless delivered to the undersigned, in a plain sealed envelope supplied by the Council, bearing the words "Tender for ——." The envelope must not bear any name or mark indicating the sender.

Tenders must be received by not later than 4 p.m. on WEDNESDAY, 22nd February, 1961.

THOMAS STEPHENSON,
Clerk of the Council.

BUCKS. COUNTY COUNCIL.

BLETCHLEY ROAD, BLETCHLEY, B.4034.

SURFACE WATER DRAINAGE—BLETCHLEY ROAD AND WESTFIELD ROAD.

TENDERS are invited for a SURFACE WATER DRAINAGE SCHEME, comprising 1,300 lin. yd. of 12in. to 36in. dia. Concrete Pipe Sewers, together with necessary Manholes, and ancillary works.

Drawings may be seen at the Offices of the County Surveyor, County Offices, Aylesbury, from whom Contract documents may be obtained on payment of a deposit of £2, returnable on receipt of a bona-fide Tender.

Tenders must be received by me by 10 a.m., MONDAY, 27th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,
Clerk of the Council.

County Hall,
Aylesbury.

BRECONSHIRE COUNTY COUNCIL.

TENDERS are invited from specialist playing field or sports ground contractors for the PREPARATION of PLAYING FIELDS at PENLAN, Brecon.

Tendering particulars can be obtained from the County Architect, Rhyd Offices, Brecon, application for which must be made not later than 9th FEBRUARY, 1961.

C. M. S. WELLS,
Clerk of the County Council.

County Hall,
Brecon.

COUNTY BOROUGH OF BURY.

TENDERS invited for the SUPPLY, DELIVERY, ERECTION and FIXING of CLOAKROOM and CHANGING ROOM FITTINGS at SEEDFIELD COUNTY SECONDARY MODERN SCHOOL, Bury.

Bills of Quantities and General Conditions obtainable from Borough Engineer, Town Hall, Bury.

Tenders, enclosed in the envelope provided, must reach me not later than MONDAY, 13th February, 1961.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
24th January, 1961.

COUNTY BOROUGH OF DUDLEY.

RECONSTRUCTION OF SIMMS LANE KERB AND FOOTPATH.

Applications to TENDER are invited for the ABOVE CONTRACT.

The work comprises approx. 250 lin. yd. of Kerbing and 500 sq. yd. of Bitumen Macadam Footpaths.

Applications for Tender documents should be addressed to the Borough Engineer, The Council House, Dudley, Worcestershire, accompanied by a deposit of £2 2s. which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn, and the return of the documents.

The latest date for receipt of applications is WEDNESDAY, 8th February, 1961, and Tender documents will be forwarded as soon as possible after that date.

P. D. WADSWORTH,
Town Clerk.

The Council House,
Dudley, Worcs.
24th January, 1961.

BOROUGH OF GILLINGHAM.

PRIVATE STREET WORKS—GRAIN ROAD.

TENDERS are invited for the MAKING-UP of GRAIN ROAD, the Private Street Works consisting of the Construction of approx. 3,258 sq. yd. of Carriageway with Tarred and Bituminous Surfacing with Hardcore Foundation, 1,960 sq. yd. of Footpath with Bituminous and Cold Asphalt Surfacing with Hardcore Foundation, together with Gullies and other ancillary works.

Applications for copies of the Specification, Bills of Quantities and Form of Tender should be addressed to the Borough Engineer, Municipal Buildings, Gillingham, Kent, accompanied by a deposit cheque for £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in a plain sealed envelope endorsed "Private Street Works—Grain Road," must be delivered to the undersigned by not later than the First Post on MONDAY, the 27th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

RONALD P. CROMPTON,
Acting Town Clerk.

Municipal Buildings,
Gillingham,
Kent.
26th January, 1961.

HARLOW URBAN DISTRICT COUNCIL.

GROUP "A" LIGHTING.

TENDERS are invited for the ERECTION and WIRING of 58 GROUP "A" CONCRETE COLUMNS, together with the Fitting of Lanterns and Lamps, on VARIOUS MAIN ROADS within the Urban District.

Documents may be obtained from A. W. R. WEBB, A.M.I.C.E., M.I.Mun.E., M.R.S.H., Engineer and Surveyor, Town Hall, Harlow, on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender. Cheques should be made payable to Harlow Urban District Council.

Tenders, in plain sealed envelopes marked "Group 'A' Street Lighting," must be delivered to the CLERK OF THE COUNCIL, Town Hall, Harlow, not later than 12 Noon, SATURDAY, 18th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

CONTRACTS

NOTTINGHAMSHIRE COUNTY COUNCIL.

HIGHWAYS COMMITTEE.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED ITEMS of PLANT:

One Power-operated Motor Scythe.
Two Side-throw Snow Ploughs for use with motor scythes.
Two Snow Ploughs.
One Hydrovane Air Compressor.
One Vibrating Roller.
Three Ferguson Tractors and Equipment.
Five Trailer Gritters.
One set Spring Tine Harrows.
One 5cwt. Motor Van.
One Tipping Trailer.
One Tine Tiller.

Further particulars are obtainable from the County Surveyor, Shire Hall, Nottingham.

Tenders are to be sent to the undersigned by the 3rd MARCH, 1961.

A. R. DAVIS,
Clerk of the County Council.

COUNTY BOROUGH OF WOLVERHAMPTON.

SUPPLY OF OVERALLS.

TENDERS are invited for the SUPPLY of OVERALLS for the financial year ending 31st March, 1962.

Tender Forms and Conditions may be obtained from the BOROUGH ENGINEER, Town Hall, Wolverhampton.

Latest date for receipt of Tenders: 20th FEBRUARY, 1961.

COUNTY BOROUGH OF BURY.

TENDERS invited for SUPPLY and DELIVERY of FOLLOWING MATERIALS during year ending March, 1962:

FORM NO. 1—Stone Flags, Kerbs and Setts.
FORM NO. 2—Rubble Stone for Pitching, Broken Stone for Ballasting, Crushed Stone for Concrete and Quarry Sand.
FORM NO. 3—Creosote, Bitumen Emulsion and Road Tar.
FORM NO. 4—Portland Cement.
FORM NO. 5—Tarred and Bitumen Macadam and Fine Cold Asphalt.
FORM NO. 6—Chippings.
FORM NO. 7—Concrete Flags, Kerbs and Edgings.
FORM NO. 8—Earthenware Pipes, Gullies, etc.
FORM NO. 9—Bricks.
FORM NO. 10—Paraffin Oil.

Form of Tender, Conditions and Specifications from Borough Engineer, Town Hall, Bury. Please state Form number required.

Sealed Tenders, enclosed in the envelope provided, must reach me not later than 18th FEBRUARY, 1961.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
23rd January, 1961.

COUNTY BOROUGH OF BLACKBURN.

ST. STEPHEN'S C.E. JUNIOR SCHOOL, BLACKBURN.

DEMOLITION OF, AND REPAIRS TO, BOUNDARY WALLS, AND SUPPLY AND ERECTION OF WROUGHT-IRON FENCING.

Contractors wishing to TENDER for the ABOVE WORKS should submit their names to the Borough Engineer, Town Hall, Blackburn, by the 16th FEBRUARY, 1961.

FRANK SQUIRES.
Town Clerk.

BOROUGH OF MAIDSTONE.

PROPOSED NEW CENTRAL LIBRARY—26-50 FAITH STREET, MAIDSTONE.

STRUCTURAL FRAME.

TENDERS are invited from specialists in reinforced concrete, for the DESIGN and ERECTION of the REINFORCED CONCRETE FRAMED STRUCTURE to the ABOVE, and for the DEMOLITION of the BUILDINGS existing on site.

Copies of Tender Forms and other relevant documents can be obtained from the Borough Engineer, Palace Avenue, Maidstone, and Tenders should be forwarded to the Town Clerk, 13 Tonbridge Road, Maidstone, not later than 1st MARCH, 1961.

T. SCHOLES,
Town Clerk.

13 Tonbridge Road,
Maidstone.

CITY OF MANCHESTER.

TENDERS invited for the SUPPLY and ERECTION of WELDED STEEL PARTITIONS and LIGHT STEEL FRAMED DIVISION WALLS at HANGAR NO. 7, Manchester Airport.

Specifications and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 16th FEBRUARY.

HATFIELD RURAL DISTRICT COUNCIL.

LEMSFORD SEWERAGE—CONTRACT NO. 8.

TO CONTRACTORS.

The above-named Council invite TENDERS for the EXECUTION of SEWERAGE WORKS, comprising the Furnishing and Laying of about 1,400yd. of 6in. and 9in. Stoneware and Spun-iron Sewers and about 300yd. of 4in. Spun-iron Pumping Main, and the Construction of a Sewage Ejector Station, Manholes, and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to D. BALFOUR AND SONS, MM.I.C.E., 131 Victoria Street, Westminster, S.W.1, together with a cheque deposit of £10 made payable to the Hatfield Rural District Council, not later than TUESDAY, 21st February, 1961, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and the receipt of all printed documents after the Contract has been let.

It is essential that the contractor shall have had considerable experience in similar works and be prepared to furnish security with an approved society for the fulfilment of the Contract.

The lowest or any Tender will not necessarily be accepted by the Council.

S. F. JAGO,
Clerk of the Hatfield R.D.C.

Council Offices,
16 St. Albans Road,
Hatfield, Herts.
26th January, 1961.

CONTRACTS

METROPOLITAN BOROUGH OF WANDSWORTH.

ROAD RECONSTRUCTION AND MAINTENANCE WORKS.

Applications invited from contractors wishing to be placed on the Council's approved list of contractors who may be invited each year, during the next three years, to TENDER for ONE or MORE of the FOLLOWING TYPES OF WORK:

(i) Reconstruction of approx. Two Miles of Roads each year, involving Kerbing, Sett Channelling, Precast Concrete Flag Paving, limited B.S. 1621 Bitumen Macadam Surfacing, etc.
(ii) Reinstatement of Public Utilities Trenches in Precast Concrete Flag Paving and Relaying irregular or damaged Precast Concrete Flag Paving approximating to 70,000 sq. yd. each year.
(iii) Machine Surfacing of Carriageways with B.S. 1621 Granite Aggregate Wearing Course Bitumen Macadam, B.S. 594 Single Course and Two Course Granite Aggregate Rolled Asphalt, and B.S. 594 Two Course Granite Aggregate Roughcast Asphalt approximating to 40,000 sq. yd. each year.

Applications to me, giving the names of two technical and two financial referees, by 10th FEBRUARY, 1961.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

BOROUGH OF LOWESTOFT.

RESURFACING OF TRUNK AND CLASSIFIED ROADS.

SEPARATE TENDERS are invited for the FOLLOWING:

(a) Resurfacing with Bitumen Macadam of approx. 8,900 sq. yd. in Denmark Road, Lowestoft.
(b) Resurfacing with Cold Asphalt of approx. 8,100 sq. yd. in St. Margaret's Road, Lowestoft.
(c) Resurfacing with Hot Rolled Gravel Asphalt of approx. 2,150 sq. yd. in London Road South, between Kirkley Park Road and Kendal Road, Lowestoft.

Conditions of Contract will be available for inspection, and Forms of Tender, Specification and Bills of Quantities can be obtained from the Borough Engineer's Office, 49 High Street, Lowestoft, upon payment of a deposit of Two Guineas in each case, which will be refunded upon the receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders to be delivered to the undersigned not later than 12 Noon on FRIDAY, 17th February, 1961. No Tender will be accepted unless in a sealed envelope suitably endorsed "Tender—Resurfacing of Denmark Road, or St. Margarts Road, or London Road South," as appropriate, and bearing no mark or writing by which the tenderer can be identified.

The Council do not bind themselves to accept the lowest or any Tender.

F. B. NUNNEY,
Town Clerk.

Town Hall,
Lowestoft.
26th January, 1961.

BOROUGH OF HENDON.

BRANCH PUBLIC LIBRARY—CHILDS HILL, N.W.2.

The BOROUGH COUNCIL invites FIXED-PRICE TENDERS for the FOLLOWING BUILDING WORK:

Branch Public Library, Childs Hill, N.W.2.

The Form and Conditions of Tender, Specification and Bills of Quantities will be issued by, and Plans may be inspected at the Offices of, the Borough Engineer and Surveyor, to whom applications for the documents must be made not later than 7th FEBRUARY, 1961, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender on the form provided and not subsequently withdrawn. Cheques should be made payable to Hendon Corporation.

Tenders must be received by the 2nd MARCH, 1961.

This invitation to tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4.

BINGHAM RURAL DISTRICT COUNCIL.

RADCLIFFE-ON-TRENT SEWERAGE AND SEWAGE DISPOSAL.

TENDERS, on a Fixed-price Basis, are invited for the CONSTRUCTION of about 2,200 lin. yd. of GLAZED STONEWARE PIPE SEWERS of diameters ranging from 18in. to 9in., with Manholes, about 1,850 lin. yd. of 15in. dia. Spun-iron Rising Mains with Hatchboxes, a Main Sewage Pumping Station and Sewage Disposal Works comprising Balancing Tanks, Sedimentation Tanks, Bacteria Beds, Humus Tanks, Sludge Drying Beds, two Sludge Pumphouses, together with incidental works, in accordance with the Drawings, Specification and Bills of Quantities prepared by the Consulting Engineers, A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Offices of the undersigned or of the Consulting Engineers, on or after the 16th February, 1961, on payment of a deposit of Five Guineas which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied, and in the endorsed envelope provided, are to be deliverd to me at my Office not later than Noon on the 16th MARCH, 1961.

The Council do not undertake to accept the lowest or any Tender.

W. B. BIRCH,
Clerk of the Council.

Council Offices,
Market Place,
Bingham,
Nottingham.
28th January, 1961.

BEDFORDSHIRE EDUCATION COMMITTEE.

DUNSTABLE COLLEGE OF FURTHER EDUCATION.

TENDERS are invited for the FOLLOWING:

(a) Machine Tools.
(b) Letterpress and Composing Machinery, etc.

Further particulars and Forms of Tender from the DIRECTOR OF EDUCATION, Shire Hall, Bedford, by 14th FEBRUARY, 1961.

CONTRACTS

BOROUGH OF CHELMSFORD.

ANNUAL TENDERS.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS and HIRE of PLANT for the year ending 31st March, 1962.—

(i) Precast Concrete Flags and Kerbs.
(ii) Bitumen Macadam, Tarmacadam and Fine Cold Asphalt.
(iii) Chippings, Precoated with Tar.
(iv) Chippings, Precoated with Bitumen.
(v) Supply and Spreading of Hot Tar.
(vi) Supply and Spreading of Hot Bitumen.
(vii) Gravel and Sand.
(viii) Cement.
(ix) Ready Mixed Concrete.
(x) Hire of Mechanical Plant.
(xi) Motor Fuel and Fuel Oil.
(xii) Paint.
(xiii) Scavenging Brooms and Brooms for Lewin Road Sweeping.
(xiv) Coke.

Form of Tender, Specification and Conditions of Tender may be obtained on application to the Borough Engineer and Surveyor. Completed Tenders are to be delivered, in plain sealed envelopes, endorsed "Annual Tenders," to the undersigned not later than Noon on MONDAY, 13th February, 1961.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Chelmsford.
January, 1961.

BOROUGH OF KIDDERMINSTER.

TENDERS are invited for the SUPPLY and DELIVERY of One Bedford-Lacre MECHANICAL ROAD SWEEPER. Particulars and Forms of Tender are obtainable from the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster. Closing date, MONDAY, 20th February, 1961.

JOHN L. EVANS,
Town Clerk.

Town Hall,
Kidderminster.
January, 1961.

BOROUGH OF EALING.

YEADING GREEN ESTATE—SURFACE WATER OUTFALL—SEWER NO. 1.

TENDERS are invited for the CONSTRUCTION of approx. 220 lin. yd. 42in. dia., 360 lin. yd. 45in. dia. CONCRETE SEWER, 90 lin. yd. of 6in. dia. G.S.W. SEWER, Manholes, Sewer Connections, and ancillary works.

Documents obtainable, on receipt of a deposit of £5 (returnable on receipt of bona-fide Tender), from Borough Engineer, Town Hall, Ealing, W.5.

Drawings may be inspected at the Office of Borough Engineer and MESSRS. DAVIDGE AND PARTNERS, Abbey House, 2 Victoria Street, S.W.1.

Tenders, in sealed, endorsed envelopes, to Town Clerk, Town Hall, Ealing, W.5, by Noon, 28th FEBRUARY, 1961.

E. J. COPE-BROWN,
Town Clerk.

Town Hall,
Ealing, W.5.

CITY OF LEEDS.

TO CONTRACTORS.

FLOOD RELIEF—LONGROYDS.

TENDERS are invited by the TOWN PLANNING AND IMPROVEMENTS COMMITTEE for the CONSTRUCTION of approx. 216 lin. yd. of CONCRETE PIPE SEWER 39in. and 21in. dia., together with other ancillary works.

Plans, Specification, Conditions of Contract, Bills of Quantities and Form of Tender may be obtained on application to Room No. 75, Civic Hall, Leeds, 1, on payment of a deposit of £3 3s. which will be returned upon the receipt of a bona-fide Tender, together with all documents supplied.

Tenders and all documents shall be completed and forwarded in accordance with the detailed instruction, to the Town Clerk's Office, Room No. 57, Civic Hall, Leeds, 1, not later than 12 Noon on FRIDAY, 10th of March, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

D. CURRIE, M.I.C.E.,
City Engineer.

Civic Hall,
Leeds, 1.

FULWOOD URBAN DISTRICT COUNCIL.

ANNUAL CONTRACTS, 1961-62.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS and/or EXECUTION of WORK for the 12 months ending 31st March, 1962:—

(a) Tarmacadam and Bitumen Macadam.
(b) Hot Rolled Asphalt (Supply and Laying).
(c) Fine Cold Asphalt.
(d) Bitumen Road Emulsion (Supply and Application).
(e) Premixed Waterbound Macadam.
(f) Concrete Kerbs.
(g) Commercial Petrol.
(h) Diesel Oil (Automotive).
(i) Domestic Fuel Oil for Central Heating.

Forms of Tender and Conditions of Contract may be obtained upon application to the Engineer and Surveyor.

Tenders, sealed in the envelope provided, and bearing no mark or name indicating the sender, to be delivered to the undersigned not later than TUESDAY, 28th February, 1961.

The Council does not bind itself to accept the lowest or any Tender.

R. D. S. COTMAN,
Clerk of the Council.

Council Offices,
Garstang Road,
Fulwood,
Near Preston, Lancs.

FELIXSTOWE INTERNAL DRAINAGE BOARD.

LANDGUARD MARSHES DRAINAGE SCHEME.

TENDERS are invited for the ABOVE-MENTIONED WORK, comprising the Excavation and Regarding of approx. 175 chains of Drain, Spoil Spreading and the Construction of Culverts.

Tender documents can be obtained from me on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders are to be returned not later than 10 a.m. on MONDAY, the 27th February, 1961.

S. VINCENT ELLIS,
Clerk of the Board.

The Cedars,
Albemarle Road,
Norwich, NOR. 81E.
27th January, 1961.

CONTRACTS

COUNTY BOROUGH OF WEST HARTLEPOOL.

TO ELECTRICAL CONTRACTORS.

TENDERS are invited from electrical contractors for the INSTALLATION of ELECTRICAL SYSTEM at the HIGH SCHOOL FOR GIRLS, West Hartlepool.

Drawings, Specification and Form of Tender, and any other information, may be obtained from, and the Plans inspected at, the Office of the Architect, viz., LEONARD AUTON, Dip.Arch.(Dunelm), A.R.I.B.A., Regent Buildings, York Road, West Hartlepool.

Tenders should be submitted in a plain sealed envelope endorsed "High School for Girls—Tender for Electrical Installation," and should be addressed to the Chairman of the Education Committee, Town Clerk's Office, Municipal Buildings, West Hartlepool. The envelope must not bear any name, frank or marking indicating the sender, and should be received at the Town Clerk's Office not later than WEDNESDAY, 22nd February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
27th January, 1961.

COUNTY BOROUGH OF WEST HARTLEPOOL.

TO HEATING CONTRACTORS.

TENDERS are invited from heating contractors for the INSTALLATION of CENTRAL HEATING and HOT WATER SYSTEM at the HIGH SCHOOL FOR GIRLS, West Hartlepool.

Drawings, Specification and Form of Tender, and any other information, may be obtained from, and the Plans inspected at, the Office of the Architect, viz., LEONARD AUTON, Dip.Arch.(Dunelm), A.R.I.B.A., Regent Buildings, York Road, West Hartlepool.

Tenders should be submitted in a plain sealed envelope endorsed "High School for Girls—Tender for Heating Installation," and should be addressed to the Chairman of the Education Committee, Town Clerk's Office, Municipal Buildings, West Hartlepool. The envelope must not bear any name, mark or franking indicating the sender, and should be received at the Town Clerk's Office not later than WEDNESDAY, 8th March, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
27th January, 1961.

CITY OF BIRMINGHAM.

TO PUBLIC WORKS CONTRACTORS.

COLDBATH VALLEY SEWERAGE.

The PUBLIC WORKS COMMITTEE invite TENDERS on a Fixed-price Basis for a Measure and Value Contract for the CONSTRUCTION of approx. 1,250 lin. yd. of FOUL and SURFACE WATER SEWERS varying in size from 6ft. x 3ft. 3in. to 9in. dia., in Private Lands on both sides of, and crossing, WAKE GREEN ROAD (near Swanshurst Lane), Moseley.

Copies of the General Conditions (which include the Corporation's usual Fair Wages and Conditions of Labour Clause), Supplemental Conditions, Specification, Bill of Quantities and Forms of Tender may be obtained on payment of a deposit of £2 2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender. Plans can be seen at Room M39, Civic Centre, Birmingham, 1.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Department (Room No. B.21), Council House, Birmingham, 1, not later than Noon on WEDNESDAY, 1st March, 1961, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

HARPENDEN URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959, PART IX (CODE OF 1892).

The above Council invite TENDERS for the KERBING, PAVING, MAKING-UP with HARDCORE and TARMACADAM, or alternatively "LEAN-MIX" CONCRETE and TARMACADAM, and PROVISION of SURFACE WATER DRAINAGE in the FOLLOWING PRIVATE STREETS within the Urban District:—

Granby Avenue—357 lin. yd.
Carisbrooke Road—340 lin. yd.
Langdale Avenue—380 lin. yd.
Cross Way—295 lin. yd.
West Way—366 lin. yd.
Stewart Road—495 lin. yd.
St. James Road—132 lin. yd.

Plans may be seen on any day during normal office hours at the Office of the Council's Engineer and Surveyor, Mr. H. PETTINGALE, A.M.I.C.E., A.R.I.C.S., A.M.I.Mun.E., from whom copies of the Specification, Bill of Quantities and Form of Tender may be obtained on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents.

Tenders, in a plain sealed envelope, endorsed "Private Street Works," to be delivered to the Clerk of the Council, Harpenden Hall, Harpenden, Hertfordshire, on or before Noon on MONDAY, 6th March, 1961.

No Tender will be received bearing on its envelope any mark or identification other than that stated above.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK A. HARRIS,
Clerk of the Council.

Harpenden Hall,
Harpenden, Herts.
January, 1961.

THE WEST HERTFORDSHIRE MAIN DRAINAGE AUTHORITY.

DEMOLITION OF FOUR PAIRS OF PREFABRICATED DWELLINGS.

FIXED-PRICE TENDERS are invited for the ABOVE WORK, which comprises the Demolition of Nos. 1-2 and 5-10 The Orchard, Maple Lodge Close, Maple Cross, Rickmansworth, Herts.

Tender documents, obtainable from the General Manager, WEST HERTFORDSHIRE MAIN DRAINAGE AUTHORITY, Maple Lodge, Maple Cross, Rickmansworth, Herts., are returnable by Noon on MONDAY, 20th February, 1961, marked "Demolition."

CONTRACTS

NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of FOUR KIDD 48in. ROTOFLAILS, with Offset Mounting for cutting highway verges; four Hurricane Grass Cutters are to be taken in part exchange.

Tenders, which must be enclosed in envelopes marked "Tender for Glass Cutters," are to be delivered to the CLERK OF THE COUNTY COUNCIL, County Hall, Northallerton, Yorks., by the 22nd FEBRUARY, 1961.

BOROUGH OF GUILDFORD.

STOUGHTON ROAD WIDENING.

TENDERS are invited for the ABOVE, which includes 482 sq. yd. Tarmacadam Footpath, 230 lin. yd. Kerbing, Boundary Walls and ancillary Works.

Documents from Borough Engineer.

Tenders must reach me by Noon, THURSDAY, 16th FEBRUARY, 1961.

HERBERT C. WELLER,
Town Clerk.

Municipal Offices,
Guildford.

CITY OF MANCHESTER.

TENDERS invited for EXTENSIONS to DINING HALL and KITCHEN at POUNDSWICK GRAMMAR SCHOOL, WYTHENSHAWE.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 15th FEBRUARY.

CITY OF BRADFORD.

ASPHALT SURFACING.

TENDERS are invited for the SUPPLY, DELIVERY and LAYING by MECHANICAL MEANS of approx. 40,000 super. yd. of ROLLED ASPHALT (Hot Process) on VARIOUS ROADS in the City of Bradford.

Forms of Tender, Conditions, Specification and Bills of Quantities may be obtained from the City Engineer and Surveyor, Town Hall, Bradford, on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Asphalt Surfacing," but bearing no mark indicating the sender, should reach me not later than First Post on TUESDAY, 21st February, 1961.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

URBAN DISTRICT COUNCIL OF COSELEY.

TENDERS.

PRIME COST ITEMS—HOUSING ESTATES.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS to be used in the building of up to 400 Dwellings approx. on various Housing Estates, viz.:

(1) Sanitary Fittings.
(2) Ironmongery.
(3) Electrical Installation.
(4) Grates.
(5) Cupboard Units.

Persons desiring to tender should make application to the undersigned, stating the particular items for which they wish to tender, on or before 13th FEBRUARY, 1961. The necessary Specification and Form of Tender will then be forwarded.

Closing date for receipt of Tenders: SATURDAY, 25th February, 1961.

JOSEPH C. ROPER,
Clerk of the Council.

Council House,
Coseley.
31st January, 1961.

HAMBLEDON RURAL DISTRICT COUNCIL.

ERECTION OF TWO PAIRS OF BUNGALOWS AT CLAPPERS MEADOW, ALFOLD.

TENDERS are invited for the ERECTION of TWO PAIRS of BUNGALOWS at CLAPPERS MEADOW, ALFOLD.

A Specification, Plans, Bills of Quantities and Form of Tender may be obtained from the office of the Engineer and Surveyor on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender and the return of all documents. (Cheques should be made payable to the Hambledon Rural District Council, crossed Lloyds Bank Ltd, and sent to the Treasurer, Council Offices, Bury Fields, Guildford.)

Tenders, in the endorsed envelopes provided, must be delivered to the undersigned not later than 12 Noon on Monday, the 6th MARCH, 1961.

The Council do not bind themselves to accept the lowest or any Tender, and acceptance will be subject to the approval of the Ministry of Housing and Local Government.

Dated this 27th day of January, 1961.

C. J. WAGG,
Clerk of the Council.

Council Offices,
Bury Fields,
Guildford,
Surrey.

HAMBLEDON RURAL DISTRICT COUNCIL.

CHURT MAIN DRAINAGE SCHEME.

TENDERS are invited for the LAYING of approximately 2,481yd. of 6in. diameter STONEWARE SEWERS and the CONSTRUCTION of 38 PRECAST CONCRETE MANHOLES, and other incidental Works at CHURT.

Drawings, Soil Samples and Conditions of Contract may be inspected at, and Specification, Bill of Quantities and Form of Tender obtained, from the Engineer and Surveyor, Council Offices, Bury Fields, Guildford, on payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender. (Cheques should be made payable to Hambledon Rural District Council, crossed Lloyds Bank Ltd., and sent to the Treasurer, Council Offices, Bury Fields, Guildford.

Tenders, in the endorsed envelopes provided, are to be delivered to the undersigned not later than 12 Noon on MONDAY, the 6th March, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

The acceptance of any Tender will be subject to the approval of the Ministry of Housing and Local Government.

Dated this 27th day of January, 1961.

C. J. WAGG,
Clerk of the Council.

Council Offices,
Bury Fields,
Guildford,
Surrey.

CONTRACTS

GLOUCESTER COUNTY COUNCIL.

LONGFORDS MILL TO BOATHOUSE CORNER IMPROVEMENT.

TENDERS for the ABOVE-MENTIONED WORKS on the NAILSWORTH to AVENING ROAD, A.434, and comprising 9,000 cu. yd. Excavation in Rocky Soil, Minor Road Widening and ancillary Works.

Documents from County Surveyor, Quay Street, Gloucester. Deposit £5, payable to the Gloucester C.C., refunded if bona-fide Tender not subsequently withdrawn. Tenders by 10 a.m. on 21st FEBRUARY, 1961.

GUY H. DAVIS,
Clerk of the County Council.

WARWICKSHIRE COUNTY COUNCIL.

HALFORD BRIDGE DIVERSION.

TENDERS are invited for the CONSTRUCTION of NEW BRIDGEWORKS for the DIVERSION, consisting of Two Main Arches of 45ft. and 50ft. span over the River Stour and Two Flood Arches of 24ft. span in Reinforced Concrete with Abutments, Piers and Spandrel Walls on Piled Foundations, the exposed bridge faces to be Faced in Masonry, together with ancillary works of site clearance, earthworks and river works. The main earthworks and road construction are not included in the Contract.

Documents may be obtained from the County Surveyor, Shire Hall, Warwick, on payment of Five Guineas which will be refunded in full on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Halford Bridge Diversion," must be delivered to the County Surveyor not later than 12 Noon on MONDAY, 27th February, 1961.

The County Council do not bind themselves to accept the lowest or any Tender.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
26th January, 1961.

BOROUGH OF ABINGDON.

TENDERS are invited for the CLEANSING and RESEALING of SURFACE WATER GULLIES within the Borough.

At present there are approx. 1,400 gullies, and they are emptied three times a year.

Tenders, based on a price per gully per emptying, should be sent to the Borough Engineer and Surveyor, The Abbey House, Abingdon, Berks., not later than SATURDAY, 11th February, 1961.

The Council are not bound to accept the lowest or any Tender.

E. W. J. NICHOLSON,
Town Clerk.

The Abbey House,
Abingdon, Berks.
27th January, 1961.

BOROUGH OF CHATHAM.

RESURFACING OF CASTLE ROAD.

TENDERS are invited for the ABOVE WORKS, comprising the Mechanical Laying of Fine Cold Asphalt ¾in. thick to approx. 6,500 sq. yd. in Castle Road.

Forms of Tender, Specification and Bills of Quantities can be obtained from, and General Conditions of Tender and Contract can be seen at, the Office of J. A. T. RICHARDS, Borough Engineer and Surveyor, Town Hall, Chatham, on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender or the return of all documents.

Tenders must be delivered to the undersigned by Noon on MONDAY, 13th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.
January, 1961.

URBAN DISTRICT COUNCIL OF COULSDON AND PURLEY.

PRIVATE STREET IMPROVEMENT WORKS.

(A) NEWTON ROAD, PURLEY.
(B) ROKE LODGE ROAD, PURLEY.
(C) BOURNE KIEW, KENLEY.

TENDERS are invited for the ABOVE WORKS.

Bills of Quantities and Form of Tender, prepared by H. M. COLLINS, A.M.I.C.E., may be obtained upon deposit of £3 3s. in respect of each Tender, which will be refunded upon receipt of bona-fide Tenders.

Plans, Specification and Conditions of Contract may be inspected at the Council Offices.

Sealed Tenders, in the envelopes provided, and endorsed "Newton Road," "Bourne View," "Roke Lodge Road Improvement Works," must be delivered to the undersigned not later than First Post on MONDAY, 13th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ERIC F. J. FELIX,
Clerk of the Council.

Council Offices,
Purley,
Surrey.

FARNBOROUGH URBAN DISTRICT COUNCIL.

TO ROAD CONTRACTORS.

HIGHWAYS ACT, 1959.

MAKING-UP PART OF SANDY LANE UNDER THE PRIVATE STREET WORKS CODE OF 1892.

TENDERS are invited for the CONSTRUCTION of approx. 2,700 sq. yd. of TARMACADAM CARRIAGEWAY, 2,270 sq. yd. of TARMACADAM FOOTWAY, 880 lin. yd. of Kerbing, 525 lin. yd. of 6in. dia. to 12in. dia. SURFACE WATER SEWERS, 456 lin. yd. of 6in. dia. and 9in. dia. FOUL SEWERS, with 4in dia. House Connections, Gullies, Manholes, Site Clearance, and other incidental works inside and outside the limits of the Private Street.

Specifications, Bills of Quantities and Forms of Tender for this Contract can be obtained from the Council's Engineer and Surveyor, Municipal Offices, Farnborough, Hants, where Plans may be inspected during normal office hours.

Sealed Tenders, in the envelope provided, endorsed "Tender for Sandy Lane," to be received not later than 12 Noon on TUESDAY, the 28th February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

D. STUART JONES,
Clerk of the Council.

Town Hall,
Farnborough,
Hants.

CONTRACTS

GLAMORGAN COUNTY COUNCIL.

HIGHWAYS ACT, 1959.

TO PUBLIC WORKS CONTRACTORS.

Separate TENDERS are invited for the MAKING-UP of the FOLLOWING PRIVATE STREETS:—

(1) Austin Avenue, Laleston, near Bridgend, the principal works comprising:—
Storm Water Sewer, 250 lin. yd.
Kerbing, 500 lin. yd.
Footways, 950 sq. yd.
Carriageway, 1,200 sq. yd.
And incidental works.

(2) Dan-y-Bryn Avenue and Park Road (Part), Radyr, near Cardiff, the principal works comprising:—
Storm Water Sewer, 40 lin. yd.
Kerbing, 800 lin. yd.
Footways, 1,250 sq. yd.
Carriageway, 3,000 sq. yd.
And incidental works.

Specifications, Bills of Quantities and Forms of Tender can be obtained from the County Surveyor, County Hall, Cardiff, on payment of a deposit of £3 for each tender document. The deposit will be returned, subject to the Condition of Tender, on receipt of a bona-fide Tender and the return of all the documents supplied.

General Conditions of Contract and Drawings may be seen at the Offices of the County Surveyor during normal working hours.

Contractors will be required to pay the recognised rates of wages and to observe the recognised hours of labour.

Sealed Tenders, made out on the prescribed form and accompanied by the priced Bill of Quantities, are to be delivered, in the envelope provided, at the County Hall, Cardiff, by the First Post on 3rd MARCH, 1961.

The County Council do not necessarily accept the lowest or any Tender.

RICHARD JOHN,
Clerk of the County Council.

County Hall,
Cardiff.
27th January, 1961.

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for WIDENING CARRIAGEWAYS in LEAN-MIX CONCRETE with BITUMINOUS MACADAM (Gravel Aggregate) SURFACING and PROVISION of TARMACADAM FOOTWAYS at the FOLLOWING:—

(a) Cranleigh-Wonersh Road (B.2128), Wonersh (approx. 740 lin. yd.).
(b) Barnett Lane, Wonersh (approx. 400 lin. yd.).

Documents, obtainable from County Engineer, returnable by 18th FEBRUARY, 1961, to CLERK OF THE COUNCIL, County Hall, Kingston-upon-Thames. No Tender will be received except in a plain sealed envelope bearing the words "Tender for ——."

BOROUGH OF SWINTON AND PENDLEBURY.

THE ERECTION AND COMPLETION OF 28 HOUSES, TOGETHER WITH THE CONSTRUCTION OF ROADS AND SEWERS, AT RINGLOW PARK ROAD, SWINTON, LANCASHIRE.

TENDERS are invited from suitable contractors for the ABOVE WORK. Bills of Quantities and Forms of Tender obtainable from BOROUGH ENGINEER, Town Hall, Swinton, Lancs. Closing date for the receipt of Tenders, 6th MARCH, 1961.

BOROUGH OF BEDDINGTON AND WALLINGTON.

TENDERS are invited for a CONTRACT for RE-INSTATEMENT of TRENCHES, RECONSTRUCTION of FOOTWAYS in Macadam and Asphalt or Precast Concrete Slabs, Kerb, Channel, and ancillary works for year commencing 1st April, 1961.

Contract documents from Borough Engineer, Town Hall, Wallington, Surrey.

Priced copy to be returned to the undersigned, in envelope provided, not later than MONDAY, 20th February, 1961.

A. B. BATEMAN,
Town Clerk.

BOROUGH OF WREXHAM.

TO ROAD TARRING CONTRACTORS.

The CORPORATION invite TENDERS for SURFACE DRESSING of CARRIAGEWAYS within the Borough; approx. area 80,000 super yd.

General Conditions, Specification and Form of Tender can be obtained on application to the Borough Engineer and Surveyor, Bodhyfryd, 31 Chester Street, Wrexham.

Sealed Tenders, in the envelope provided, must be delivered to the undersigned not later than 12 Noon on SATURDAY, 18th February, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.

RUGBY RURAL DISTRICT COUNCIL.

SHILTON AND ANSTY SEWERAGE.

CONTRACT NO. 16.

TENDERS are invited for the LAYING of approx. 1¾ miles of 6in. SALT GLAZED WARE SEWERS with Concrete Tube Manholes, 1,300yd. of 6in., 1,200yd. of 5in. and 960yd. of 4in. ASBESTOS-CEMENT RISING MAIN, and the Construction of Two Pumping Stations.

The works are to be constructed in the Parishes of Shilton and Ansty, which are located on the A.46 Coventry-Leicester Road some six miles north-east of Coventry.

The General Conditions of Contract, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, MM.I.C.E., 67 Tufton Street, Westminster, London, S.W.1, on and after 6th February, 1961, on payment of a deposit cheque of Ten Guineas, refundable only to contractors who submit bona-fide Tenders and return all documents and Drawings. Deposit cheques should be made payable to Rugby Rural District Council.

Sealed Tenders must be endorsed "Tender for Contract No. 16," bearing no name or mark indicating the sender, and delivered to the Office of the undersigned not later than Noon on 13th MARCH, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. WILDE,
Clerk of the Council.

Council Offices,
24 Warwick Street,
Rugby, Warwickshire.
27th January, 1961.

CONTRACTS

BUCKS. COUNTY COUNCIL.

THE HIGHWAYS ACT, 1959.—THE CODE OF 1892.

ELIZABETH AVENUE, LITTLE CHALFONT.

TENDERS are invited for the MAKING-UP of the ABOVE STREET.

Specification, Form of Tender and Contract and Bill of Quantities may be obtained from the County Surveyor, County Offices, Aylesbury.

Applications must be accompanied by a remittance for £2 which will be refunded on receipt of a bona-fide Tender.

Sealed Tenders must be delivered to the undersigned by MONDAY, 27th February, 1961, in the envelope provided, endorsed "Private Street Works—Elizabeth Avenue," but not bearing any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,
Clerk of the Bucks. County Council.

County Hall,
Aylesbury.
February, 1961.

STEPNEY METROPOLITAN BOROUGH COUNCIL.

TENDERS are invited for the FOLLOWING WORKS:—

Supplying and Laying Asphalt Paving as required, for a period of 12 months from the 1st April, 1961.

Forms of Tender with Conditions, etc., obtainable from the Borough Engineer and Surveyor, 227-233 Commercial Road, E.1. Closing date for Tenders, 27th FEBRUARY, 1961.

WILFRED REEVE,
Town Clerk.

Municipal Offices,
227-233 Commercial Road,
E.1.

BOROUGH OF SLOUGH.

SUPPLY OF WATER PURIFICATION PLANT FOR SWIMMING POOL.

FIXED-PRICE TENDERS are invited for the SUPPLY, ERECTION, TEST and SETTING TO WORK of a SWIMMING POOL WATER PURIFICATION PLANT of a capacity of 125,000 gallons per hour, at BAYLIS HOUSE, Slough.

Specification, Drawings and Form of Tender obtainable from BOROUGH ENGINEER, Town Hall, Slough, Bucks., on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all the documents.

Tenders, on the prescribed form, must be returned, in the envelope provided, not later than 12 Noon on MONDAY, 6th March, 1961.

The Council does not bind itself to accept the lowest or any Tender.

BOROUGH OF DUNSTABLE.

ANNUAL TENDERS—1961/62.

The COUNCIL invites TENDERS for the SUPPLY of the FOLLOWING MATERIALS for the year ending 31st March, 1962:

(1) Tarmacadam (Slag Aggregate).
(2) Fine Cold Asphalt (Slag Aggregate).
(3) Concrete Aggregates.
(4) Building Sand.
(5) Ashes.
(6) Spent Ballast.
(7) Precast Concrete Kerb.
(8) Precast Concrete Flags.

Particulars and Form of Tender may be obtained from the Borough Engineer and Surveyor at the address below.

Tenders, in a plain sealed envelope endorsed "Tender for Materials," but bearing no distinguishing mark indicating the sender, are to be delivered to the undersigned not later than 12 Noon on SATURDAY, 25th February, 1961.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable, Beds.
30th January, 1961.

BOROUGH OF SUTTON COLDFIELD.

MANEY HILL ROAD IMPROVEMENT.

TENDERS are invited for the ABOVE WORKS, which consist of Making-up of Carriageway, Realignment of Kerbing, and Channelling and Reconstruction of Footpaths.

Plans and Conditions of Contract may be inspected at the Office of the Borough Surveyor, from whom the Specification, Bill of Quantities and Form of Tender may be obtained.

Sealed and endorsed Tenders, on the official form, together with the priced Bill of Quantities, are to be delivered, in the envelope provided, to the undersigned, Council House, Sutton Coldfield, not later than Noon on THURSDAY, 16th February, 1961.

The lowest or any Tender will not necessarily be accepted.

J. P. HOLDEN,
Town Clerk.

Council House,
Sutton Coldfield.
27th January, 1961.

BOROUGH OF AYLESBURY.

BUCKINGHAM ROAD RISING MAIN.

TENDERS are invited, on a Fixed-price Basis, for the LAYING of approx. 545yd. of 10in. dia. C.I. RISING MAIN, together with Outfall Manhole.

Form of Tender, Specification and Bills of Quantities may be obtained from the Borough Engineer and Surveyor, Friarscroft, 3 Oxford Road, Aylesbury, Buckinghamshire, on the payment of a deposit of Two Guineas, returnable on the receipt of a bona-fide Tender.

Tenders, in a plain sealed envelope endorsed "Rising Main—Buckingham Road," must be delivered to the undersigned not later than Noon on THURSDAY, 23rd February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. D. W. MAXWELL,
Town Clerk.

Town Hall,
Aylesbury, Bucks.
January, 1961.

CITY OF MANCHESTER.

DAVYHULME SEWAGE WORKS EXTENSIONS.

TENDERS invited for SUPPLY, DELIVERY and ERECTION of CAST-IRON SUPPORT PIPES, CAST-IRON TROUGHS and STAINLESS STEEL WEIRS in the FINAL SETTLING TANKS of the Aeration Plant.

Tender documents, returnable 10th MARCH, 1961, from the CITY SURVEYOR, Town Hall, Manchester, 2.

CONTRACTS

STEPNEY METROPOLITAN BOROUGH COUNCIL.

TENDERS are invited for the FOLLOWING WORKS during the period of 12 months from the 1st April, 1961:—

Schedule A: The Removal of Surplus Spoil and/or Hardcore from Demolished Buildings and Constructional Works.

Schedule B: The Removal of Surplus Spoil and/or Hardcore from Street Works, Sewer Works, Foundations and/or Excavations.

Forms of Tender with Conditions, etc., obtainable from the Borough Engineer and Surveyor, 227-233 Commercial Road, E.1. Closing date for Tenders, 27th FEBRUARY, 1961.

WILFRED REEVE,
Town Clerk.

Municipal Offices,
227-233 Commercial Road,
E.1.

BOROUGH OF SLOUGH.

SOUTHERN INTERCEPTOR SEWER EXTENSION.

FIXED-PRICE TENDERS are invited from experienced civil engineering contractors for the CONSTRUCTION of approx. 1,440 lin. yd. of 15in. dia. and 410 lin. yd. of 9in. dia. CAST-IRON PIPE SEWERS, together with Precast Concrete Manholes and appurtenant works.

Specification, Bill of Quantities and Form of Tender obtainable from BOROUGH ENGINEER, Town Hall, Slough, Bucks., on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender and the return of all documents. Drawings and Conditions of Contract may be inspected at the Borough Engineer's Office during normal office hours.

Tenders, on the prescribed form, must be returned, in the envelope provided, not later than 12 Noon on FRIDAY, 3rd March, 1961.

The Council does not bind itself to accept the lowest or any Tender.

CITY OF PETERBOROUGH.

TENDERS FOR THE SUPPLY OF PRESSED ALUMINIUM TRAFFIC REGULATION ORDER SIGNS.

Details from City Engineer. Tenders to be received before 10 a.m., 23rd FEBRUARY, 1961.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.
February, 1961.

HORSHAM URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING, 1961.

TENDERS, divided into seven lots, will shortly be invited for the EXTERNAL PAINTING of approximately 305 COUNCIL HOUSES.

Contractors who wish to be included in the list of tenderers, for one or all lots, must notify the Surveyor to the Council by First Post on 13th FEBRUARY, 1961.

The Council do not bind themselves to include all applicants on their selected list.

S. ASHTON STRAY,
Clerk of the Council.

Council Offices,
Horsham Park,
Horsham.

For Contracts received too late for classification see page 581

APPOINTMENTS VACANT

OXFORDSHIRE COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.
PROJECT ENGINEER.

APPLICATIONS are invited for the ABOVE APPOINTMENT on J.N.C. Scale "A" (£1,565 p.a.), to supervise a contract for the construction of $3\frac{1}{2}$ miles of dual carriageway trunk road to special road standards, and incorporating a site experiment in pavements designed by the Road Research Laboratory.

Applicants must be qualified Engineers who have recently been responsible for contracts of similar magnitude.

The appointment will be subject to the Local Government Superannuation Acts, and the successful candidate will be required to pass a medical examination. The officer appointed will be required to provide a car and will be paid travelling allowance in accordance with the Council's Scale.

Applications, endorsed "Project Engineer," stating age, qualifications, details of experience, and present appointment, and accompanied by the names and addresses of three persons to whom reference can be made, should be delivered to the County Surveyor, 8 New Road, Oxford, not later than 6th FEBRUARY, 1961.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford.
January, 1961.

HERTFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for ASSISTANT ENGINEER (PLANT), A.P.T. IV (£1,140-£1,310 per annum), to be responsible for organising and supervising the maintenance of plant in use upon county and trunk roads and motorways. They should have considerable technical knowledge and practical experience of mechanical plant; a knowledge of highway maintenance would be an advantage.

Apply at once, giving details of experience, qualifications, present salary, age and names of two referees, to the COUNTY SURVEYOR, County Hall, Hertford.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF HIGHWAYS FOREMAN.

APPLICATIONS are invited for the ABOVE POSITION from men with good experience with a large Highway Authority, having good organising ability, able to supervise direct labour work on maintenance and constructions of highways and sewers.

The salary to be in Miscellaneous Scale VI (£760-£825), commencing above the minimum dependent upon experience and qualifications.

Applications, on forms obtainable from the Borough Engineer, Town Hall, Bournemouth, to reach me by the 15th FEBRUARY, 1961.

A. LINDSAY CLEGG,
Town Clerk.

APPOINTMENTS VACANT

MINISTRY OF LABOUR.

D.S.I.R. ROAD RESEARCH LABORATORY, Harmondsworth, Middlesex, REQUIRES CIVIL ENGINEERS, MATHEMATICIANS, STATISTICIANS in Senior Scientific and Scientific Officer grades for work in Tropical Section of Laboratory.

Qualifications: First- or Second-class Honours Degree. For Senior Scientific Officer Posts (minimum age 26), at least three years' post-graduate experience is required, either in research or in a related field.

Duties: Concern roadbuilding in countries in tropical and sub-tropical belts, involving traffic engineering and the economics of road transport generally, and road safety in these regions. Section is based at Harmondsworth, and work involves regular visits overseas with, in some instances, postings for periods of one to two years on specific projects.

Salary: Within range S.S.O. (£1,330-£1,640), S.O. (£730-£1,205). Normal prospects of promotion in mid-thirties (range up to £2,375), with possibility of higher posts.

Forms from MINISTRY OF LABOUR, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting Ref. No. E/512/0A.

FLINTSHIRE COUNTY COUNCIL.

A CLERK OF WORKS is REQUIRED for road widening scheme at High Street, Connah's Quay (A.548) for about six to nine months. Applicants should have sound knowledge of supervision and measuring up of large contracts, drainage, and road construction works. Salary, according to qualifications and experience, £800-£900 per annum.

Further particulars and form of application from the CLERK OF THE COUNTY COUNCIL, County Buildings (P.O. Box 1), Mold.

Closing date, 6th FEBRUARY, 1961.

BOROUGH OF EPSOM AND EWELL.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF SUPERINTENDENT (HIGHWAYS AND CLEANSING).

APPLICATIONS are invited for the ABOVE POST in the Borough Engineer and Surveyor's Department, at a salary on Scale A.P.T. III (£960-£1,140) plus London Weighting together with an essential user car allowance.

The commencing salary within the Grade will be dependent upon the applicant's qualifications and experience.

The Council are providing housing accommodation for certain members of their staff in new three-bedroom type houses, and consideration will be given to the allocation of one of these to the successful applicant should he require it.

Conditions of the appointment and Application Forms are obtainable from COLIN COBBETT, M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, to whom they must be returned, together with the names and addresses of three referees, by FRIDAY, the 10th February, 1961.

EDWARD MOORE,
Town Clerk.

Town Hall,
Epsom, Surrey.
January, 1961.

CITY OF LEICESTER.

WATER DEPARTMENT.

ASSISTANT REQUIRED for building and estates surveyor controlling maintenance work on buildings and designing alterations. Applicants should be A.R.I.B.A., or A.R.I.C.S., or I.A.A.S., or have passed part of the examinations for these qualifications. They must be capable of preparing drawings and supervising building works. Current driving licence essential. Salary A.P.T. I/II/III (£645-£1,140), according to qualifications and experience. National conditions of service. Superannuation. Medical examination.

Applications to the ENGINEER AND MANAGER, Water Department, Bowling Green Street, Leicester, within 10 days of the appearance of this advertisement.

CITY OF LEICESTER.

Leicester Water Department REQUIRE an ASSISTANT CIVIL ENGINEER for new capital schemes arising from the extensive expansion of the undertaking. Salary will depend on age, qualification and experience, with a maximum of £1,140 on A.P.T. III at age 28 for qualified engineers with five years' training and experience. Possibilities of promotion to higher grades. Assistance with housing available.

Applications will be considered from partly qualified men for entry on to lower scales. National conditions of service apply. Superannuation. Medical examination.

Applications to the ENGINEER AND MANAGER, Water Department, Bowling Green Street, Leicester, within 10 days of appearance of this advertisement.

HOLMFIRTH URBAN DISTRICT.

DEPUTY ENGINEER AND SURVEYOR.

Holmfirth Council invite APPLICATIONS for this APPOINTMENT. Application must be made in a form obtainable from the Clerk of the Council, Council Offices, Holmfirth. N.J.C. Conditions including "essential user" car allowance at minimum scale.

Salary A.P.T. Grade III for a candidate who on appointment has passed the Final Examination of the Institution of Municipal Engineers, or A.P.T. II for a suitable candidate not so qualified progressing to A.P.T. Grade III upon qualifying.

Closing date, 20th FEBRUARY, 1961.

WYCOMBE RURAL DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT at a salary in accordance with Grade A.P.T. II (£815-£960): the commencing salary dependent upon qualifications and experience. An essential user travelling allowance will be paid on scale for 1199 cc. car, and N.J.C. Conditions of Service will apply. The Council will assist in providing housing accomodation, if required.

The Council is engaged in an extensive programme of sewerage schemes, and this post offers exceptional opportunities for supervising contract work now in progress and designing and preparing new schemes.

Preference will be given to persons who have completed their professional training, and/or have passed the intermediate or equivalent examination of the Institutions of Municipal or Civil Engineers.

Applications, stating age, particulars of present and past appointments, details of experience and the names of two referees, should be submitted to the Engineer and Surveyor, 8 Easton Street, High Wycombe, before 18th FEBRUARY, 1961.

L. C. RYSDALE,
Clerk of the Council.

17 High Street,
High Wycombe.

APPOINTMENTS VACANT

GOVERNMENT OF SARAWAK.

PUBLIC WORKS DEPARTMENT.

EXECUTIVE ENGINEER.

Candidates must be A.M.I.C.E. or have a university degree in civil engineering. Some training in soil mechanics would be of advantage, and adequate experience in the design of concrete structures desirable.

Duties: To be design engineer in the investigation, survey and design branch, with control of site investigation work. To teach local staff and carry out the analysis of all laboratory results for design and test purposes.

Terms: On contract for one tour of three years in the first instance, with gratuity on satisfactory completion of engagement.

Emoluments in scale £1,386-£2,324 per annum. Free passages. Generous leave. Education allowance.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age and brief details of qualifications and experience. Quote BCD112/24/06/D14.

LINDSEY COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

WORK STUDY TEAM.

The Highways Department is about to introduce a Work Study and Incentive Bonus Scheme on Roadworks, and REQUIRES the UNDERMENTIONED STAFF with a knowledge of, or interest in, such techniques, to form the team that will cover an area near Lincoln. The posts offered are permanent and pensionable. Previous experience in the Job is not essential, but a keen interest is required, and willingness to benefit from the training that will be given after appointment:—

(a) Studyman, Grade A.P.T. I (£645-£815 per annum).—Applicants must have a good G.C.E. at "O" level and some intermediate qualification, and be able to assimilate technical details of a practical nature. They should have a presentable appearance and must be able to discuss work with people at all levels, and should like a mixture of outdoor and office work. A valid driving licence for a car is essential.

(b) Work Checker, Grade Clerical I (£630-£710 per annum).—Applicants must be able to measure roadworks and to do simple arithmetic. A knowledge of practical roadworks would be helpful as most of the time will be spent on work sites, but this is not essential. A valid driving licence for a car or motor-cycle is required.

Applications, on forms obtainable from the COUNTY SURVEYOR, County Offices, Lincoln, should be submitted not later than 10th FEBRUARY, 1961.

NORTHAMPTONSHIRE COUNTY COUNCIL.

(READVERTISEMENT.)

ENGINEERING ASSISTANT—GRADE A.P.T. III (£935-£1,140).

APPLICATIONS are invited for the ABOVE APPOINTMENT in the Planning Liaison Section of the County Surveyor's Department, in connection with the administration of the New Streets Acts and the Private Street Works Code. Duties will include the checking of estate layouts and the supervision of roadworks involved in new development.

Candidates should have passed Parts I and II of the Institution of Civil Engineers Examination, or hold the Testamur of the Institution of Municipal Engineers, or some equivalent qualification.

Further details of the appointment, together with Form of Application and Conditions of Service, may be obtained from the County Surveyor, County Offices, Guildhall Road, Northampton, to whom applications should be returned by MONDAY, 13th February, 1961.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

ATHERSTONE RURAL DISTRICT COUNCIL.

POLESWORTH SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 3.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the ABOVE APPOINTMENT to supervise this Contract under the direction of the Council's Consulting Engineers, J. D. and D. M. WATSON, MM.I.C.E., Chartered Civil Engineers, 67 Tufton Street, Westminster, S.W.1.

The Contract includes the construction of sewage disposal works, comprising reinforced concrete tanks and pumping station, percolating filters, sludge drying beds, pipelines, roads and footpaths and of two outlying pumping stations and some four miles of sewers and pressure mains, of diameter from 6in. to 21in., in spun-iron, asbestos cement and concrete pipes, with concrete tube manholes.

The salary offered is £1,200 per annum, and the appointment will be terminable by two months' notice on either side and will be subject to satisfactory service. Car mileage allowance will be paid on the essential user scale.

It is expected that the work will commence in March, 1961, and take 18 months to complete.

Applicants must have had considerable experience of similar work and should be Associate Members of the Institute of Civil Engineers or have comparable qualifications. Written applications must reach the undersigned not later than 24th FEBRUARY, 1961, giving full particulars of age, qualifications and experience, and at least two recent references.

G. CARLYON MAY,
Clerk of the Council.

Council Offices,
Atherstone,
Warwickshire.
January, 1961.

WEST SUSSEX RIVER BOARD.

APPOINTMENT OF TWO TECHNICAL ASSISTANTS, GRADE A.P.T. III.

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENTS from candidates of suitable experience.

One vacancy exists for an Engineering Assistant on the design and supervision of general engineering works, and a second vacancy exists for an Assistant capable of undertaking river gauging duties and compiling hydrological data and records. Previous experience with a River Board would be an advantage, but not essential.

Applications, stating age, education, qualifications and experience, together with the names of two referees, should be sent to the Chief Engineer of the Board, County Hall, Chichester, not later than 25th FEBRUARY, 1961

T. C. HAYWARD,
Clerk of the Board.

APPOINTMENTS VACANT

NATIONAL COAL BOARD.

APPLICATIONS are invited for a POSITION as ASSISTANT CIVIL ENGINEER in the North Staffordshire Area of the West Midlands Divisional Coal Board.

Applicants should be Corporate Members of the Institution of Civil Engineers or the Institution of Structural Engineers, or possess exempting qualifications from the Examinations of these Institutions. A good knowledge of reinforced concrete and structural steelwork design is desirable, together with experience in the design of road construction, foundations, drainage schemes and layout of railway sidings. A knowledge of specifications, bills of quantities and contract conditions would be an advantage.

Salary range: £1,000-£1,550 p.a.

Application Forms, obtainable from AREA STAFF MANAGER, National Coal Board, 72 Leek Road, Stoke-on-Trent, should be returned not later than 15th FEBRUARY, 1961. Please quote NS(60)183.

FLINTSHIRE COUNTY COUNCIL.

APPLICATIONS are invited for the APPOINTMENT of JUNIOR ENGINEERING ASSISTANT in the County Surveyor's Department, Mold. Salary on Grade A.P.T. I (£645-£815 per annum). Applicants should have experience in surveying and in the preparation of plans for road and bridgeworks.

Application form from the CLERK, County Buildings (P.O. Box 1), Mold. Closing date 13th FEBRUARY, 1961.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS, which are in connection with the supervision of Motorway Contract works:—

Resident Engineer (Bridges). Salary £1,525 per annum.

Resident Engineer (Roads). Salary £1,525 per annum.

Assistant Resident Engineers (Bridges). Salary £1,200-£1,300 per annum.

Assistant Resident Engineers (Roads). Salary £1,200-£1,300 per annum.—Applicants for all above must be qualified Engineers and have had the appropriate experience on the supervision of major constructional works.

Quantity Surveyor. Salary £1,525 per annum.—Applicants must be qualified and fully conversant with the standard method of measurement on civil engineering contracts and have detailed knowledge with regard to payments made on interim and final measurements.

Site Laboratory Staff—Assistants. Salary £1,200 per annum.—Applicants must have the necessary technical and practical experience to deal with laboratory aspects of control, particularly the testing of soils and road materials.

Clerks of Works. Salary £1,000-£1,100.—Applicants must have had previous experience on large constructional works, preferably of a structural character or on major road schemes.

The County Council have approved a scale of overtime payments for week-end working in addition to the standard salaries.

The appointments are superannuable, and the County Council will, for a period of six months, grant a lodging allowance of 35s. per week and second-class return railway fare home every two months during that period to the successful candidate, if married and maintaining a home outside the geographical county. The Council will also consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of a successful applicant's furniture and household goods.

Canvassing of members of the Council or any Committee of the Council directly or indirectly will be a disqualification.

Applications on the appropriate forms, which can be obtained from the County Surveyor, County Buildings, Stafford, should reach him not later than 14 days after the date of publication of this advertisement.

T. H. EVANS,
Clerk of the County Council.

County Buildings,
Stafford.
January, 1961.

COUNTY BOROUGH OF EAST HAM.

SENIOR ASSISTANT ENGINEER (GENERAL)—A.P.T. IV (£1,185-£1,355).

PRINCIPAL ASSISTANT ENGINEER (STRUCTURES)—A.P.T. V (£1,355-£1,525).

Salaries in excess of the minima may be paid according to qualifications and experience. Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and Application Forms, returnable by 17th FEBRUARY, 1961, from the TOWN CLERK, Town Hall, East Ham, E.6.

COUNTY BOROUGH OF EAST HAM.

ENGINEERING ASSISTANT, A.P.T. I OR II. SALARY UP TO £1,000 P.A. (ACCORDING TO QUALIFICATIONS).

A subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and Application Forms, returnable by 17th FEBRUARY, 1961, from the TOWN CLERK, Town Hall, E.6.

CITY OF PLYMOUTH.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

(i) Assistant Engineer (Traffic Section)—A.P.T. IV (£1,140-£1,310).

(ii) Junior Assistant Engineer—A.P.T. I (£645-£815).

Applicants for (i) must be Corporate Members of a recognised Professional Institution and have good general experience in civil engineering.

Applicants for (ii) should have completed approved training.

It is the practice of the Council to pay half the cost of household removal expenses up to a maximum contribution of £25.

Housing accommodation may be available in certain circumstances.

The appointments are superannuable, subject to medical examination, and the age limit is 40 years, or 45 years if serving with another local authority.

Applications, on forms obtainable from the undersigned, to be returned by 18th FEBRUARY, 1961.

J. ACKROYD,
City Engineer and Surveyor.

The Guildhall,
Plymouth,
Devon.
23rd January, 1961.

APPOINTMENTS VACANT

NATIONAL COAL BOARD.

(DURHAM DIVISION.)

CIVIL ENGINEERS.

APPLICATIONS are invited for VACANCIES for CIVIL ENGINEERS in the department of the Divisional Civil Engineer. The successful candidates will work on colliery reconstruction schemes, mainly in the design office location at modern headquarters on the Team Valley Trading Estate, and will have the opportunity from time to time of site supervision on projects in County Durham.

As a minimum technical qualification applicants must have passed Parts I and 2 of the Associate Membership Examination of the Institution of Civil Engineers, or hold exempting qualifications, and should have had at least three years' experience in either civil engineering design or construction sites. Opportunity will be given for completing the I.C.E. Associate Membership Examination.

Starting salary within the range £825-£1,275 would be according to qualifications, experience, etc., and for a man of good calibre would be in the upper part of the range. Excellent superannuation scheme.

Apply within seven days to D.C.S.O., N.C.B., Team Valley Trading Estate, Gateshead, 11. Please quote SG/128/13 (101).

LANCASHIRE COUNTY COUNCIL.

APPLICATIONS are invited from suitably qualified ENGINEERING ASSISTANTS for vacancies on Grades A.P.T. III (£935-£1,140), A.P.T. III/IV (£935-£1,310), and A.P.T. IV (£1,140-£1,310) in the County Surveyor's Department at Preston in connection with large-scale road and bridge schemes.

The commencing salaries will be in accordance with qualifications and experience.

Applications, stating the Grade applied for and quoting reference No. 112/12, names and addresses of two referees and details of qualifications and experience, to be delivered to the COUNTY SURVEYOR, P.O. Box No. 9, County Hall, Preston, by not later than 13th FEBRUARY, 1961.

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the UNDERMENTIONED APPOINTMENTS:—

(1) Bridge Assistant for duties centred at King's Lynn. Salary, Grade IV/V (£1,140-£1,480 per annum).

Applicants should be Associate Members of the Institution of Civil Engineers or the Institution of Structural Engineers, or hold an equivalent qualification, and must have experience in the design and construction of bridges, both in reinforced concrete and structural steel, in the control of direct labour, and in the preparation and supervision of contract works.

(2) Engineering Assistant for Private Street Works, centred at Head Office, Norwich. Salary, Grade III or IV (£935-£1,140 or £1,140-£1,310 per annum), according to qualifications and experience. A.M.I.C.E. or equivalent qualification desirable.

Candidates should be competent surveyors and draughtsmen, with experience in design and construction of roads, and with the preparation of specifications and quantities. Private street works experience is not essential.

The starting point on the salary scale in each case will be according to qualifications and experience.

For each post a motor-car is essential and the appointed officers will be paid an essential user's car allowance in accordance with the recommendations of the National Joint Council, as adopted and applied from time to time by the County Council. Loans available for purchase, if required.

The appointments will be on the permanent establishment of the Department, terminable by one month's notice on either side. The provisions of the Local Government Superannuation Acts, 1937 to 1953, apply. The successful candidates will be required to pass a medical examination. Grant towards removal expenses.

The National Joint Council Service Conditions apply in general.

Further particulars and application forms obtainable from the COUNTY SURVEYOR, County Offices, Thorpe Road, Norwich, Norfolk, NOR. 47A. Latest date for completed application forms, 24th FEBRUARY, 1961.

COUNTY OF WEST SUFFOLK.

APPLICATIONS are invited for the APPOINTMENT of a JUNIOR ENGINEERING ASSISTANT on Grade A.P.T. I (£645-£815).

National Joint Council service conditions. Post pensionable. Medical examination. Appointment terminable by one month's notice, in writing, on either side.

Applicants should have completed professional training with a Local Authority.

Application forms may be obtained from and should be returned to the COUNTY SURVEYOR, Manor House, Bury St. Edmunds, not later than 20th FEBRUARY, 1961.

METROPOLITAN BOROUGH OF BATTERSEA.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS:—

(1) One Assistant Engineer, A.P.T. Grade III.

(2) Two Engineering Assistants, A.P.T. Grade II.

Salary ranges: A.P.T. Grade III (£960-£1,140 per annum); A.P.T. Grade II (£815-£960 per annum).

London weighting payable in addition, £40 per annum (at age 26 or over) for Grade A.P.T. II; £45 per annum for Grade A.P.T. III.

Commencing salaries will be according to qualifications and experience. Local Government experience is not essential.

For appointment:—

(1) Applicants should be suitably qualified and the successful applicant will be primarily engaged on a large programme of roadworks.

(2) Applicants should be suitably qualified to undertake general road and sewer works, including a sewer survey of the whole borough.

The appointments are subject to the Local Government Superannuation Acts, 1937-53. Further particulars and application forms obtainable from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Battersea, S.W.11. Closing date, 20th FEBRUARY.

BOROUGH OF HIGH WYCOMBE.

APPOINTMENT OF CLERKS OF WORKS.

APPLICATIONS are invited for the APPOINTMENT of TWO CLERKS OF WORKS at a salary of £950 p.a.

Applicants must have had experience in general civil engineering works, and particularly of the construction of sewers in water-bearing ground or highway and Private Street Works.

Candidates should submit full details as to age, qualifications and experience, together with the names of two persons to whom reference may be made.

Applications should be forwarded to the undersigned by not later than FRIDAY, 24th February, 1961.

J. A. PARKINSON, M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

APPOINTMENTS VACANT

SURVEYOR/MANAGER with sound knowledge of public works REQUIRED by progressive company operating in the Midlands. Good commencing salary, with car and allowances.—Replies in confidence to the Chairman, MIDLAND CONSTRUCTION CO. (BIRMINGHAM), LTD., 47-49 Lower Dartmouth Street, Birmingham, 9.

ENGINEERS

Civil engineering contracting, overseas. Applications for site engineering posts on a large overseas contract are invited from **ENGINEERS** having at least five years' site experience. The work is varied and interesting, and the climate is pleasant. Two-year tours. Good prospects for assistant engineers with drive and a sound technical and commercial background.—Write, stating training, experience, age and marital status, to:

BOX V.3128, "THE CONTRACT JOURNAL."

SENIOR AGENT REQUIRED for permanent staff of established, expanding civil engineering contractors working in Southern England. Must be fully capable of control of medium-sized contracts up to £100,000 individually, and also capable of control of smaller contracts collectively. It is hoped that the successful applicant will have the ability eventually to undertake contract manager's responsibilities. Good remuneration and prospects.—Write, giving age, full details of experience, and present salary, to Box V.3374, "The Contract Journal."

SENIOR QUANTITY SURVEYOR REQUIRED by building and civil engineering company for their Leeds office. An excellent opportunity in an expanding company for the right man.—Apply, in writing, stating age and experience, to: THE MITCHELL CONSTRUCTION CO. (LEEDS), LTD., Moorland Works, Gelderd Road, Leeds, 12.

ASSISTANT ENGINEER REQUIRED by firm of building and civil engineering contractors. Excellent opportunities in an expanding company for the right man.—Apply, in writing, stating age and qualifications, to: THE MITCHELL CONSTRUCTION CO. (LEEDS), LTD., Moorland Works, Gelderd Road, Leeds, 12.

THOROUGHLY experienced ESTIMATOR REQUIRED by old-established East London contractors. Good salary and prospects.—Write, stating age, experience, and salary expected, to Box V.3402, "The Contract Journal."

RUDDOCK AND MEIGHAN, LTD.

REQUIRE AGENTS, SITE ENGINEERS for civil engineering contracts near London. Good prospects, bonus and pension scheme.—Full details to:

RUDDOCK AND MEIGHAN, LTD.,
Burford House, Harrow View, Wealdstone, Middx.

YOUNG ENGINEERS REQUIRED for site setting-out, levelling, and keeping records. Candidates must be reliable with instruments and preferably with site experience. Work is largely in London area, but applicants must be willing to travel. Good prospects for the right men.—Write, giving full details, to KIRK AND KIRK, LTD., Atlas Works, Putney, S.W.15.

ROOFING CONTRACTORS (Midlands) REQUIRE CONTRACTS MANAGER, Coventry area. Must have first-class experience of slating and tiling, and all types of pitched roofing, and organisation and supervision of labour, etc.—Reply, stating age, previous experience, and salary required, to WORMELLS, Regent Street, Coventry. 'Phone: Coventry 20755-6-7.

WORKING MECHANICAL ENGINEER/FITTER REQUIRED to take charge of the plant on a large civil engineering contract overseas. Applicants must be fully experienced in heavy plant overhauls, preferably under overseas conditions and using local labour. They must also show evidence of considerable success in the organisation and execution of preventive maintenance programmes that have kept large numbers of machines working steadily on double shifts. Single quarters only available for this contract. Permanent job available to the right man. Write full details of career to Box V.3432, "The Contract Journal."

SIMON-CARVES, LTD.

Building and civil engineering department.—Contracts management.—A CIVIL ENGINEER is REQUIRED to be responsible for the management of a group of contracts each controlled by a site agent. Duties cover planning, organisation and running of these contracts from inquiry to completion, and will be carried out from a fixed base. Previous experience in a similar capacity is desirable, but applications from men with successful experience as agent will be considered. Degree or A.M.I.C.E. an advantage. Generous salary, company car, pension scheme. Details of age, qualifications, previous employers and positions held should accompany applications. References will not be taken up without permission.—Reply, quoting Ref. S.C.195, to:

Contract Labour Department,
SIMON-CARVES, LTD.,
Cheadle Heath, Stockport, Cheshire.

R.C. DESIGNERS and DRAUGHTSMEN REQUIRED for design and construction of new steelworks in North Midlands. Applicants must have experience of industrial design of this nature. Permanent position with good prospects, superannuation and bonus schemes in operation. — Apply in confidence to Personnel Manager, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

PLANNING and progressing building and civil engineering contracts. This vacancy calls for a training in the industry to H.N.C. or L.I.O.B. standard, with a full knowledge of B. of Q. specifications and drawings, and some site organisation to prepare progress charts and schedules for new contracts. Applications should state fully age and history to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

WANTED, QUANTITY SURVEYOR for large housing contract, Newcastle area. Experience in site measurement, levelling and interim valuations necessary.—Apply, stating age, experience, and salary required, to JOHN TWINAME, LTD., Brigham, near Cockermouth, Cumberland.

WANTED, experienced QUANTITY SURVEYOR for contractors' head office in Cumberland. Must have sound knowledge of site measuring, valuations, final accounts, etc.—Apply, stating age, experience, and salary required, to JOHN TWINAME, LTD., Brigham, near Cockermouth.

APPOINTMENTS VACANT

BUILDERS' DRAUGHTSMAN REQUIRED for Surrey engineers and contractors carrying out interesting new developments with large clear span structures. Permanent, progressive executive position for suitable applicant, who must have thorough building or structural background.—Phone for appointment: Byfleet 45661.

CONTRACTS MANAGER REQUIRED to control medium-sized contracts in Southern England. Minimum experience required is the proven control as Agent of medium-sized contracts up to £100,000 individually; also smaller contracts collectively over an area. Terms and prospects commensurate with ability.—Write, giving full details of experience and present salary, also age, to Box V.3375, "The Contract Journal."

TAYLOR WOODROW CONSTRUCTION, LTD., REQUIRE an experienced SOFT-GROUND TUNNEL FOREMAN for compressed air, shield-driven tunnel contract. Good wages and conditions for the right man. — Applications, which will be treated confidentially, to Personnel Department, 345 Ruislip Road, Southall, Middlesex.

TURRIFF CONSTRUCTION CORPORATION, LTD.

REQUIRES top-grade SITE CLERK/CASHIERS. Age 25-45. Fully experienced building/civil engineering. Long-term prospects with good conditions. — Write:

Group Personnel Manager,
TURRIFF CONSTRUCTION CORPORATION, LTD.,
Budbrooke Road, Warwick.

EXPERIENCED SITE ENGINEER REQUIRED by civil engineering contractors, for roadworks, drainage and sewage disposal contracts in East Suffolk. The position is permanent, with pension scheme, carrying a substantial salary, and offers exceptional prospects of advancement to higher grades in an expanding organisation.—Write in confidence, stating age, full details of experience, and past employers, to Box V.3471, "The Contract Journal."

COSTING AND ORDER CLERK, 21-30, REQUIRED. Excellent prospects and pension scheme.—Application, with full details of age, experience, and salary required, to The Manager, Public Works Dept., W. H. GAZE AND SONS, LTD., 129/139 Roehampton Vale, S.W.15.

GENERAL FOREMAN REQUIRED for extensive machine-laid concrete hardstandings, factory drainage and foundations. Must have knowledge of building trades. Site near Rugby.—Apply, with details of experience, and salary required, to WALTER SMITH (CONTRACTORS), Riverhead, Sevenoaks, Kent.

QUALIFIED CIVIL ENGINEERS

REQUIRED for contract supervision and design work. Good prospects, bonus and pension scheme. — Full details to:

RUDDOCK AND MEIGHAN, LTD.,
Burford House, Harrow View, Wealdstone, Middx.

ESTIMATOR, with building and general contracting experience, REQUIRED by firm of swimming pool contractors covering the whole of Britain. Good position at head office at Battle, near Hastings (seven miles from coast on main London line). Expanding office. Superannuation scheme. Opportunities for intelligent man.—Write, stating experience, etc., to RUTHERFORD CONSTRUCTION CO., LTD., Battle, Sussex.

SITE ENGINEERS. Southend and Ipswich area, REQUIRED immediately for first-class road construction. Must be experienced and capable of working with minimum supervision from head office. Good salary and opportunity for young men with drive and initiative. Car provided.—Write in confidence, stating age, salary and experience, to J. NUNN AND SONS, Public Works and Civil Engineering Contractors, 1 Palmerston Road, Ipswich.

EXPERIENCED ELECTRICIAN for contractors in Kingston, Surrey, area. Qualifications preferred. Able to drive. Good knowledge of site requirements and all contractors' plant of an electrical nature. Salary £850-£1,000. Pension. — Written details in confidence to Box V.3472, "The Contract Journal."

CONTRACTS MANAGER REQUIRED to take charge of sportsground section of a company operating in N.W. England. Good salary and bonus scheme to suitable applicant, and a vehicle can be provided if required. Only men experienced in sportsfield construction will be considered. — Write Box V.3468, "The Contract Journal."

SURFACING MANAGER REQUIRES experienced AGENT as Assistant, to control activities of several machine-laying gangs on all types of surfacing contracts. Experience of surfacing from estimating to final accounts essential.—Full details, please, in confidence, to Surfacing Manager, WILLIAM PRESTWICH AND SONS, LTD., Dronfield, near Sheffield.

SENIOR SITE ENGINEER REQUIRED by civil engineering contractors, for main drainage contract, Oxfordshire. Salary range £1,200-£1,300 p.a. Car supplied. Permanent and progressive post, with pension and life assurance scheme.—Write in confidence, stating age, full details of experience, and past employers, to Box V.3470, "The Contract Journal."

TAYLOR WOODROW (OVERSEAS), LTD.

REQUIRE BUILDING ESTIMATOR. Sound knowledge of the industry required, to work on the preparation of estimates for contracts in many parts of the world, but previous experience of overseas estimating not essential.—Please write, giving details of experience, to:

Personnel Manager,
TAYLOR WOODROW (OVERSEAS), LTD.,
Western House, Western Avenue, Ealing, W.5.

CIVIL ENGINEERING or ARCHITECTURAL ASSISTANT REQUIRED for sales/technical appointment, based on London, with company manufacturing products used in building construction and marketed throughout the world. The applicant (preferably qualified) should be familiar with normal construction, be fully conversant with drawings, and have had site experience. Age 24-30. Work would include the preparation of specifications and visits to civil engineers, architects, and work in progress. Salary according to experience and age; pension scheme available.—Write, with full details, to Box V.3478, "The Contract Journal."

APPOINTMENTS VACANT

SOIL MECHANICS.—Civil Engineering company REQUIRES young SOIL MECHANICS ENGINEER for road construction work in Africa. Good experience in soils testing procedure essential. 18 months' contract with three months' paid home leave. Free passage and accommodation. Please give full particulars of previous experience, and salary required.—Write Box V.3419, "The Contract Journal."

GANGERS

GANGERS REQUIRED at Teddington, Wimbledon and Hendon. First-rate men. Good wages. Pension scheme. Apply to:

W. H. GAZE AND SONS, LTD.,
19-23 High Street, Kingston-on-Thames, Surrey.

ASSISTANT ESTIMATOR. Experience in civil engineering works, excavation, formwork, reinforced concrete structures, etc. Good prospects. Pension and life assurance scheme. Canteen facilities available. Possible assistance in housing. — Write, stating experience and age, to Chief Estimator, Box V.3420, "The Contract Journal."

SENIOR QUANTITY SURVEYOR REQUIRED initially for an 18-month £1½m. road and sewer contract in S.W. Essex.—Apply FITZPATRICK AND SON (CONTRACTORS), LTD., 455 Old Ford Road, Bow, London, E.3.

EXPERIENCED FITTER REQUIRED to undertake the maintenance of fuel pumps, generators and magnetos, principally International and Ruston. Write, giving details of experience, and salary required, to J. W. CHORLEY, LTD., Witherley, Atherstone.

ACCOUNTS CLERK REQUIRED. Accurate figure work essential. Experience with wages, accounts, etc., in the plant hire or contracting and civil engineering trades preferred. Permanent position to suitable applicant.—KINGSTON PLANT HIRE, LTD., Twickenham Road, Hanworth. Tel.: Feltham 4084/5.

MANAGER

REQUIRED for factory making spun-concrete pipes. Full details of experience, age and salary required, to:

SIR ALFRED McALPINE AND SON, LTD.,
Hooton, Wirral, Cheshire.

SITE ENGINEERS.—M. J. GLEESON (CONTRACTORS), LTD., invite applications from men of ability for large building projects in London and Oxford. Good salaries. Positions are permanent and progressive.—Write, with full details of age, experience, and present salary, to Personnel Officer, Haredon House, London Road, North Cheam, Surrey.

SITE QUANTITY SURVEYOR (intermediate standard) REQUIRED by firm of civil engineering contractors. Employment initially on site near Durham, and job offers every possibility for interesting work and excellent prospects.—Please apply, stating age and experience, to Ref. VCO, THYSSEN SHAFT SINKING CO., LTD., 42 Coombe Road, New Malden, Surrey.

GENERAL FOREMAN to take full charge under Agent of £1m. industrial building project in Hampshire. Full knowledge of modern materials and methods. This job offers scope for energetic man over 35 and good prospects with national contractors. Write Box V.3495, "The Contract Journal."

EXPERIENCED MUCK SHIFTER and capable administrator, initially to supervise and take responsibility for £100,000 worth of excavation per year. Also JUNIOR ENGINEERS to measure and develop general experience. — DICK HAMPTON (EARTHMOVING), LTD., Blacknest, Alton, Hants. Tel.: Bentley 3241.

COST ACCOUNTANT

W. AND C. FRENCH, LTD.

Civil engineering contractors, have vacancy for ambitious young qualified COST AND WORKS ACCOUNTANT, aged 30/35. Experience in civil engineering an advantage, but not essential. Initially, will be required to join team controlling a very large contract near London, south of the Thames, with task of providing useful cost information to all levels of management on the contract. Thereafter, will be based at company headquarters in Essex to take charge of similar work throughout the company. Starting salary £1,500-£1,750, according to age and experience, but could be higher for outstanding man. Good prospects of advancement for man who proves ability to give constructive assistance to management. Send brief particulars, quoting Ref. 32/WCF/11, to Robson Morrow and Co., 59 New Cavendish Street, W.1. Detailed personal record forms will be sent to all suitable applicants. Names and particulars will be disclosed only of those candidates who are "short-listed" for final interview by the directors of W. and C. French, Ltd.

DRAUGHTSMAN REQUIRED to work on site. Accommodation available and subsistence paid. Apply to TARMAC CIVIL ENGINEERING, LTD., Tryweryn Reservoir Contract, Tyddyn, Capel Celyn, Bala, Merionethshire. Tel.: Bala 458.

GENERAL MANAGER REQUIRED to run vehicle and plant hire business. Small at present, but plenty of scope for expansion. — MECHANICAL ENTERPRISES, LTD., Portsmouth Road, Send, near Woking, Surrey. Tel. 3122/3.

BUILDING AND CIVIL ENGINEERING ESTIMATOR REQUIRED. Salary according to experience. Permanency for right man.—Apply Chief Surveyor, G. PERCY TRENTHAM, LTD., Pangbourne, Reading.

WEST SURREY firm of contractors REQUIRE MANAGER to take over and build up reinforced concrete frame department. Full technical knowledge essential, and position offers every prospect of advancement to the right man.—Write in confidence to Managing Director, Box V.3494, "The Contract Journal."

CONSTABLE, HART AND CO., LTD., REQUIRE an ASSISTANT ESTIMATOR for asphalt and macadam surfacing in their London area organisation. Post permanent and pensionable. — Applications in writing, stating age and experience, to the London Area Manager, Lion House, Red Lion Street, Richmond, Surrey.

GENERAL FOREMEN (two) for reinforced concrete jobs in Bucks. and Herts. 12/18-month jobs, but good men can be assured of long-term prospects with firm.—Apply Commercial Manager, JAMES MILLER AND PARTNERS, LTD., Pump Lane, Hayes, Middx.

APPOINTMENTS VACANT

W. AND C. FRENCH, LTD., urgently REQUIRE experienced ENGINEERS, preferably qualified, for number of civil engineering and building contracts in the Home Counties. Applicants with experience of large-scale sewage disposal works particularly needed, age 25-40.—Apply in writing, stating age, experience, and salary required, to Personnel Manager, 50 Epping New Rd., Buckhurst Hill, Essex, quoting Ref. No. 123.

ENGINEER/AGENT for £100,000 civil engineering job in Sussex. 18-month contract. Advancement with national contractors can be offered to the right man.—Write Box V.3492, "The Contract Journal."

QUARRY MANAGER

REQUIRED for Lancashire area. Must be first-class man.—Full details of experience, age and salary required, to:

SIR ALFRED McALPINE AND SON, LTD.,
Hooton, Wirral, Cheshire.

ASSISTANT CONTRACTS MANAGER REQUIRED for moderate-sized civil engineering work. Some contracting experience required. Good opportunity for young man.—D. BENNETT, LTD., Fareham, Hants.

JUNIOR SURVEYOR REQUIRED for site measuring on London excavation contracts. — Apply to WILLMENT BROS., LTD., 462 London Road, Isleworth, Middx.

GENERAL FOREMAN, accustomed to large building contracts and reinforced concrete structures, REQUIRED by well-known Leeds building contractors. Good opportunities for applicant of ability.—Write Box V.3491, "The Contract Journal."

SALES MANAGER for distributorship of Bray Shovels and Sherman Diggers in North of England. 30 years or over, with previous experience of specialised sales managership or high level selling of machinery, preferably in the earthmoving field.—Full details to W. G. SEARCH, 43 Alwoodley Lane, Leeds, 17: or for further details, apply in confidence to G. Sheard, Professional and Executive Register, Ministry of Labour, Eastgate, Leeds, 2.

CIVIL ENGINEERING contractors (specialists), near Luton, REQUIRE an adaptable YOUNG MAN with initiative and of good appearance and address, and with civil engineering or building background, to assist generally in head office and on contracts. Permanent and progressive position. Good wages and half-yearly bonus applicable. Accommodation can be arranged if desired.—Write full particulars of experience, etc., to Box V.3488, "The Contract Journal."

PAVIOR CONSTRUCTION CO., LTD.

Rapidly expanding company situated in the West Riding of Yorkshire REQUIRES additional staff for the following positions, which are intended to be of a permanent nature:—

CHIEF BUYER

With at least five years' experience in this capacity, having complete knowledge of the industry, capable of scheduling own materials from inquiry onwards and the ability to work amicably with inside and outside staff. Salary range £1,000-£1,200 p.a.

ADDITIONAL ESTIMATING STAFF

Preferably applicants between 25/35 years old. Previous estimating experience not necessary, as would train suitable applicant with extensive civil engineering background. Salary according to experience.

SITE ENGINEERS

Required for various contracts in the Yorkshire area. Applicants preferably interested in attaining position of agent and prepared to work the necessary hours to attain this end. Quick and efficient instrument work being main qualification. Salary range £850-£1,000 p.a., depending upon experience.
Apply:

PAVIOR CONSTRUCTION CO., LTD.,
17 Saltaire Road, Shipley, Yorkshire.

WILLIAM F. REES, LTD., invite applications for the following permanent staff appointments, with participation in pension and life assurance scheme after probationary period: (1) ASSISTANT ESTIMATOR—age group approx. 25-35, to assist in preparation of tenders for general civil engineering works. Applicants, preferably with site experience, should be primarily experienced in the construction of deep sewers in open-cut, heading and tunnel; (2) JUNIOR ENGINEERS—for site duties on sewer construction in deep open-cut, heading and tunnel. Applicants should have experience of setting-out and measuring-up for contract records.—Replies, in confidence, stating age, experience, and salary required, to Ref. S.A.G., William F. Rees, Ltd., 54 Victoria Street, S.W.1.

PLANT WORKSHOP FOREMAN. — Experienced Workshop Foreman REQUIRED by national surfacing contractors to take charge of expanding central workshops in the London area. Applicants must have first-class practical ability and should preferably have knowledge of asphalt manufacturing and surfacing plant, electrical installation work, and general civil engineering equipment.—Write, giving full details of previous experience, to the Chief Mechanical Engineer, Box V.3489, "The Contract Journal."

ROLLED ASPHALT, TARMACADAM, etc.—Additional Senior and Junior ROAD SUPERVISORS REQUIRED for London area. Salaries according to experience and ability. Car provided and pension scheme available.—Apply in Confidence, with full details of career, etc., to MOWLEM PAVING CO., LTD., 19 Grosvenor Place, London, S.W.1.

TWO AGENTS WANTED now for interesting, large contracts. Excellent terms and prospects, but drive with practical experience of fast large-scale excavation and thorough knowledge of efficient use and maintenance of heavy plant are essential.—Write: Excavation Department Manager, DOWSETT ENGINEERING CONSTRUCTION, LTD., Durham Road, Gateshead-on-Tyne.

CIVIL ENGINEERING contractors, West London, wish to appoint a CONTRACTS SUPERVISOR. Applicants, who must be reasonably mobile, should have had successful experience in the control of varied forms of civil engineering construction, and preferably be qualified Engineers.—Write for Form of Application to Box V.3499, "The Contract Journal."

SITE MEASURING SURVEYOR for work on civil engineering contract near Nottingham. Local man preferred. Age approx. 23 to 35 years. Should have had previous site experience and knowledge of Standard Methods of Measurement. Staff appointment and good salary to suitable applicant. Opportunity to travel at the end of the contract if desired.—Applicants should give full details of age, experience and qualifications to Contract Labour Department, SIMON-CARVES, LTD., Cheadle Heath, Stockport, quoting Ref. M.S.209.

APPOINTMENTS VACANT

A COMPANY has been formed by two old-established West Country companies for the sale of farm buildings and specialist farm equipment. MANAGERIAL POSITION to be filled. Applicants should have had previous building and site work experience, preferably with farm accounts. Able to drive car and willing to live in Wiltshire town.—Please write, stating age, previous experience, salary required, and when free, to Box V.3505, "The Contract Journal."

WORKSHOP FOREMAN REQUIRED by Fordson main dealer. Good knowledge and experience of all Fordson Tractors essential; some knowledge of Fordson Industrial applications an advantage. Control of mechanics and organisation of workshop essential. Good wages and conditions; pension scheme.—Apply Manager, Tractor Division, WARRINGTON MOTOR CO., LTD., Wilderspool Causeway, Warrington. Tel.: Warrington 34484.

TIMEKEEPER/WAGES CLERK REQUIRED for permanent appointment, East London. Telephone for appointment: EAST 4141.

WANTED, MECHANICAL ENGINEER with experience in civil engineering plant and management, for senior executive post in plant hire company head office, London area. Opportunity to assist building up new subsidiary of well-established company. — Write Box V.3496, "The Contract Journal."

CASHIER/WAGES CLERK REQUIRED by building contractors in their head office in Hassocks, Sussex. Permanent appointment.—Write full particulars of experience, when available, and salary required, to Box V.3497, "The Contract Journal."

SALESMAN

Can you sell concrete equipment? Do you know about building and civil engineering, and have you an alert mind to spot the opportunities? If so, you are the man we want, to sell the wide range of Blaw Knox equipment in the West Midlands area. This is a new appointment, with a big potential, in a progressive plant sales company. — Write, in strict confidence, giving details of your experience, and earnings over the past four years:

Sales Manager,

MODERN PLANT SALES, LTD.,
Wolverhampton Road, Oldbury, Birmingham.

SENIOR GENERAL FOREMAN. — Two interesting vacancies for top-grade men with carpenter background, to take charge of civil engineering contracts near Droitwich and Rugby. Experience with bridge construction an advantage. Good salary, conditions and prospects for really good men.—Written applications should state fully age, background and current experience, in confidence, to Box V.3498, "The Contract Journal."

AN EXPERIENCED REPRESENTATIVE is REQUIRED by internationally known manufacturers of construction equipment, to sell a specialised range of earthmoving equipment. A good deal of travelling in the U.K. is involved. An attractive remuneration arrangement, including salary, commission and expenses, will be provided, together with the use of a company car.—Applicants with suitable technical background, experience and temperament are invited to write to Box V.3500, "The Contract Journal."

D. T. BULLOCK AND CO., LTD., seek to appoint a CIVIL ENGINEER/AGENT. This progressive company, with a sound record of expansion, REQUIRES an enthusiastic and able man to take charge of small and medium-sized civil engineering and building contracts in the Midlands. The successful applicant will: (a) be aged 25-30; (b) preferably have Degree, Higher National and/or A.M.I.C.E.; (c) be based on Aldridge. Transport will be provided, or mileage allowance in lieu. The salary will be good and prospects excellent. Although a pension scheme is in force, we are not looking for a man to whom this is a prime consideration.—Apply in confidence to Managing Director, D. T. Bullock and Co., Ltd., Aldridge, Staffs.

D. T. BULLOCK AND CO., LTD., have vacancies for ENGINEERS for setting-out and progressing works on civil engineering and building sites. Applicants should be prepared to travel to sites around the Midlands.—Apply in writing, with brief details of age, qualifications and experience, to the Contracts Manager, D. T. Bullock and Co., Ltd., Aldridge, Staffs.

CHIEF DRAUGHTSMAN

Railway engineering drawing office.—HENRY BOOT AND SONS (RAILWAY ENGINEERING), LTD., REQUIRE the services of a CHIEF DRAUGHTSMAN experienced in the design and manufacture of railway switches and crossings. Applications from young men frustrated in their present situation, but who have ambition and are anxious to improve their positions, will be welcomed and given full consideration. The appointment carries a substantial salary with admission to pension and profit-sharing schemes. A new Ford Consul car is supplied annually and, if necessary, assistance will be given towards purchasing own house.—Apply, in confidence, giving full details of experience, etc., to:

HENRY BOOT AND SONS
(RAILWAY ENGINEERING), LTD.,
Callywhite Lane, Dronfield, near Sheffield.

WORKS MANAGER.—Vacancy exists in national contractors' organisation for fully experienced man as Works Manager on £½m. main sewer contract in London. The position is an important one, and offers considerable scope for a man fully experienced in this class of work, able to control a substantial labour force, with the necessary drive and initiative. A remuneration of £1,500 p.a. is envisaged. Bonus and pension schemes in operation.—Write, giving full details, to Box V.3520, "The Contract Journal."

EXPERIENCED CONCRETE ENGINEER REQUIRED to take charge of site laboratories on large contract in Scotland. Must be able to design mixes and organise quality control. Salary in accordance with qualifications.—Apply R. H. HARRY STANGER, Sommerfield House, Barnet Lane, Elstree, Herts.

CIVIL ENGINEER.—A vacancy has arisen for a young Civil Engineer, aged 25 to 30 years, for interesting and varied work in Ghana. Applicants, as a minimum qualification, should have passed, or been exempted from, the Parts I and II of the I.C.E. professional examinations and should have some practical experience in surveying and general construction works, preferably associated with roads. The appointment can be permanent and pensionable, and offers a good initial salary, depending on qualifications and experience. Interviews will take place in London.—Applications, giving full details of age, qualifications and experience, should be made in writing to the Personnel Officer, Box V.3524, "The Contract Journal."

APPOINTMENTS VACANT

EXPERIENCED SITE ENGINEER REQUIRED by civil engineering and building contractor, for building projects in South Wales. Applicants with knowledge of reinforced concrete construction desirable. Permanent and progressive appointment, with superannuation scheme. Salary according to qualifications and experience.—Apply J. GERRARD AND SONS, LTD., Swinton, Manchester.

GRAVEL PIT MANAGER

REQUIRED, preferably with technical training.—Full details of experience, age and salary required, to:

SIR ALFRED McALPINE AND SON, LTD.,
Hooton, Wirral, Cheshire.

ESTABLISHED civil engineering organisation undergoing reconstruction WISH TO CONTACT livewire AGENTS, ENGINEERS and GENERAL FOREMAN who are looking for a permanent position with a growing, go-ahead concern where results are paid for. Excellent salaries and bonuses with profit-sharing. Only top-class men who are concerned with cost control on the job need apply. — Write Box V.3530, "The Contract Journal."

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ENGINEER/SUB-AGENTS, SECTION ENGINEERS and SECTION FOREMEN WANTED for contracts starting shortly in Northern England and the Midlands. Contract site experience with major excavation, concrete works or pipelaying essential.—Written applications to DOWSETT ENGINEERING CONSTRUCTION, LTD. (A.M.), Dowsett House, Durham Road, Gateshead-on-Tyne.

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ESTIMATOR REQUIRED for building department. Applicants must have several years' experience in estimating for all types of building work.—Reply, stating salary required, and give details of experience, to DEREK CROUCH (CONTRACTORS), LTD., Station Road, Birtley, Co. Durham.

For Advertisements received too late for classification see page 581

APPOINTMENTS WANTED

CONTRACTS MANAGER/AGENT/CHIEF ENGINEER POST, preferably within 100 miles Bristol, SOUGHT by qualified ENGINEER, 20 years' experience various concrete, heavy excavation, piling, marine and pipelaying works. Good knowledge plant, H.O. administration, planning, tendering and control.
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PLANT MANAGER (40) DESIRES CHANGE to progressive company. Fully experienced in the application, repair, maintenance and control of all civil engineering and building plant.
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CONTRACTS SUPERVISOR/AREA AGENT (37), engineer-trained, wide experience building and civil engineering, SEEKS PROGRESSIVE POST with expanding building and civil engineering contractors.
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CIVIL ENGINEER of 10 years' experience SEEKS SITE POSITION, overseas or England. — Write Box W.3485, "The Contract Journal."

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ESTIMATOR/SURVEYOR SEEKS CHANGE. 14 years' experience on roads, sewers, sportsfields and landscape work.—Write Box W.3526, "The Contract Journal."

SALES MANAGER, aged 34, with 11 years' administrative and sales experience, including responsibility for the sale of contractors' plant, forklift trucks and mobile cranes, and operation of plant hire fleet, SEEKS RESPONSIBLE ADMINISTRATIVE or SALES APPOINTMENT.
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CONTRACT PLANT SERVICE MANAGER, experienced complete overhauls, planned maintenance, cost-conscious; also sales and service.
Write Box W.3519, "The Contract Journal."

PLANT OFFICE MANAGER'S Appointment, March/April, WANTED. Midlands/Yorkshire districts and site work preferred. Present contract nearing completion.—Write Box W.3338, "The Contract Journal."

CONTRACTORS EXECUTIVE, in early 40s, with successful record in control of major civil engineering contracts, including marine works, roads, bridges, heavy industrial development and two large dams, WISHES TO MAKE A CHANGE. The immediate objective is Contracts Manager or similar senior position where organising ability, together with wide experience in planning, estimating, contract management and final settlement negotiation can be put to full and most remunerative use.
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R. BARKER (PECKHAM), LTD., New Cross 3337.

DISMANTLING and/or RE-ERECTION. — Stripping and Resheeting, T2, B1 Hangars, any type of Steelwork, and Plant, etc., Sheeting purchased, stripped and removed. Distance no object.—BEDS. DISMANTLING AND DEMOLITION CO., 3 Lurke Street, Bedford. Telephone: Bedford 66033.

SITE CLEARANCE. BULK EXCAVATION. JANES AND CO., LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

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IF GRADING, SEEDING, TURFING and PLANTING form part of your CONTRACT, we will be pleased to quote you.—HOLDRUP, 139 Bells Hill, Barnet. Telephone 9111.

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CONTROLLED EXPLOSIVES, LTD., specialise in the fragmentation of mass and reinforced concrete. Inside or outside buildings. Demolition of bridges and chimneys, mass rock, trenching, sewage beds, engine beds, etc. and deep drilling for quarries. Particulars from 11 Church Street, Oldbury, Birmingham. Telephone: BROadwell 3117.

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MUD and WEEDS DREDGED from reservoirs, lakes, rivers and canals.—BOMFORD AND WILKINS, LTD., Dredging and Excavating Contractors, Binton, Stratford-on-Avon, Warwicks. Welford-on-Avon 404.

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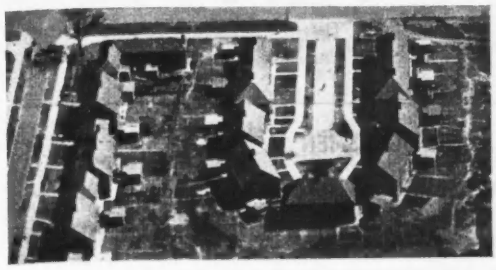

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BOROUGH OF DEVIZES.

DEMOLITION AND SITE CLEARANCE OF PROPERTIES AT NEW PARK STREET AND OLD GAS WORKS SITE.

FIXED-PRICE TENDERS are invited for the DEMOLITION and SITE CLEARANCE of 13 COTTAGE PROPERTIES at NEW PARK STREET and the OLD GAS WORKS SITE, Devizes, and Preparation of the Site as a Car Park, together with other incidental appurtenant Works.

Specification, Plan, Form of Tender and full particulars may be obtained from, and the General Conditions of Contract inspected at, the offices of the Borough Surveyor, Northgate House, Devizes, during the usual hours of business.

Sealed Tenders, in the special endorsed envelope, should be delivered to the undersigned not later than First Post on TUESDAY, 28th February, 1961.

The Council does not bind itself to accept the lowest or any Tender.

R. W. WELLS,
Town Clerk.

Town Clerk's Office,
Midland Bank Chambers,
Devizes,
Wilts.
30th January, 1961.

STAINES URBAN DISTRICT COUNCIL.

MAKING-UP OF LEACROFT CLOSE (FIRST SECTION).

FIXED-PRICE TENDERS are invited for the MAKING-UP of part of the street known as LEACROFT CLOSE. The Works comprise the following approximate quantities, together with ancillary works:—

Excavate 100 cu. yd.; Gravel Asphalt Carriageway with Hardcore Foundation 270 sq. yd.; Kerb and Channel 135 lin. yd.; Artificial Stone Paving 185 sq. yd.; Grass Verge 200 sq. yd.; Two Soakaways.

Specification, Bill of Quantities, Form of Tender and Plans may be obtained from the office of the Engineer and Surveyor, 240 London Road, Staines, upon payment of a deposit of £2 2s., which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn, together with the return of all documents.

Sealed Tenders, in the enclosed envelope provided, and free from any mark indicating the name of the sender, shall be returned to the undersigned not later than 5 p.m. on 2nd March, 1961.

The Council does not bind itself to accept the lowest or any Tender.

F. ENTWISTLE,
Clerk of the Council.

THEDWASTRE RURAL DISTRICT COUNCIL.

WALSHAM-LE-WILLOWS AND BADWELL ASH SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

TENDERS are invited from experienced contractors for the CONSTRUCTION of about FOUR MILES of CONCRETE PIPE SEWERS, 9in. and 6in. diameter, CONCRETE MANHOLES, and 1,500yd. of 5in. diameter RISING MAINS in ASBESTOS-CEMENT PRESSURE PIPES; a SEWAGE DISPOSAL WORKS comprising Settlement Tanks, Percolating Filters, Humus Tanks and Sludge Drying Beds, mainly in Reinforced Concrete, and Two Sewage Pumping Stations, also mainly in Reinforced Concrete, together with all appurtenant Works.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, 59 Tufton Street, Westminster, S.W.1, on payment of a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents. Deposit cheques should be made payable to the above-named Council.

Detail Drawings may be inspected at these offices or at the offices of the Council's Consulting Engineers.

Tenders, in plain sealed envelopes endorsed "Walsham-le-Willows and Badwell Ash Sewerage," must be delivered to the undersigned not later than Noon on WEDNESDAY, 1st March, 1961.

The Council does not bind itself to accept the lowest or any Tender.

A. OWEN,
Clerk of the Council.

Council Offices,
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Bury St. Edmunds,
Suffolk.

GENERAL FOREMAN REQUIRED for civil engineering works in Buckinghamshire area. Good all-round man; knowledge of sewage works construction an advantage. — Please write: CONCRETE PILING, LTD., 10 Westminster Palace Gardens, S.W.1, or 'phone: ABBey 1626.

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GENERAL FOREMAN REQUIRED for large sewerage contract in Midlands. Must be fully experienced in heavy timbering to deep excavations.—Write, stating age, experience, and salary required, to Box V.3522, "The Contract Journal."

CIVIL ENGINEERS REQUIRED by major firm of contractors. One SUB-AGENT, used to responsibility and with a keen appreciation of costs; and one JUNIOR ENGINEER for setting-out work, etc. Applicants should be qualified Engineers, preferably with experience of concrete preparation and placing in rock tunnels. The contract is situated in North Perthshire. Write Box 3033, Howats Advertising, 111 Union Street, Glasgow, C.1.

YOUNG ENGINEER REQUIRED by piling and foundation specialists, mainly for setting-out and general site supervision. Based London office, but willing to travel. Good prospects for right man. Write Box V.3516, "The Contract Journal."

EXPERIENCED FOREMAN JOINER REQUIRED for dam construction on hydro-electric scheme in Argyllshire.—Apply THE MITCHELL CONSTRUCTION CO., LTD., Taynuilt, Argyll.

BUCKS. COUNTY COUNCIL.

THE HIGHWAYS ACT, 1959—THE CODE OF 1892.

FULMER DRIVE, GERRARDS CROSS.

TENDERS are invited for the MAKING-UP of the ABOVE STREET. Specification, Form of Tender and Contract and Bill of Quantities may be obtained from the County Surveyor, County Offices, Aylesbury.

Applications must be accompanied by a remittance for £2, which will be refunded on receipt of a bona-fide Tender.

Sealed Tenders must be delivered to the undersigned by MONDAY, 27th February, 1961, in the envelope provided, endorsed "Private Street Works—Fulmer Drive," but not bearing any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,
Clerk of the Bucks. County Council.

County Hall,
Aylesbury.
February, 1961.

BOROUGH OF WARWICK.

PERCY ESTATE, CENTRAL AREA, SHOPS.

TENDERS are invited for the CONSTRUCTION of the FOLLOWING:—

Six Shops, Offices and Stores, forming Two Single-storey Blocks.

Six Maisonnettes and Two Flats over Six Garages and Utility Rooms, forming Two Three-storey Blocks, Landscaping and Site Works.

General.—The single-storey block will be in the form of a reinforced concrete frame and concrete flat roof. The three-storey blocks are load-bearing with reinforced concrete intermediate floors and roof.

The successful contractor will be given the opportunity of Tendering for the Internal Finishings of the Shops.

Copies of the Bill of Quantities, General Conditions and Form of Tender may be obtained from the undersigned on payment of £2 2s. deposit, which will be refunded upon receipt of a bona-fide Tender. Drawings may be seen at this Office during normal working hours. The closing date for submission of Tenders is First Post, WEDNESDAY, the 22nd February, 1961.

C. E. BROWN, A.M.I.Mun.E.,
Borough Engineer and Surveyor.

ATHERTON URBAN DISTRICT COUNCIL.

HIGHWAYS MATERIALS.

TENDERS are invited for the FOLLOWING for the year ending 31st March, 1962:—

(1) Concrete Flags.
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(3) Broken Stone and Sand.
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(5) Scavenging Brushes.
(6) Iron Castings (Manhole Covers and Street Gullies).
(7) Surface Dressing.
(8) Portland Cement.
(9) Bituminous Macadam and Cold Asphalt.

Tender Forms are obtainable from the Surveyor, Town Hall, Atherton, Manchester.

Tenders should be returned in plain sealed envelopes, endorsed "Tender for ——," so as to reach the undersigned not later than 12 Noon on SATURDAY, the 25th February, 1961.

The lowest or any Tender will not necessarily be accepted.

S. G. BLAKEBOROUGH,
Clerk of the Council.

Town Hall,
Atherton,
Manchester.

WHISTON RURAL DISTRICT COUNCIL.

ERECTION OF 20 BUNGALOWS—MILTON AVENUE, WHISTON.

The Council invite TENDERS from specialist contractors for the CONSTRUCTION of PILE and BEAM FOUNDATIONS at MILTON AVENUE, Whiston.

Drawings, Specification and Form of Tender may be obtained on application to the Engineer and Surveyor, such application to be accompanied by a cheque for £2 2s., made payable to the Whiston Rural District Council. The sum will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders, in plain sealed envelopes, endorsed "Piling, Milton Avenue," but otherwise bearing no mark or indication of the sender, must be received by the undersigned not later than Noon on WEDNESDAY, 22nd February, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

J. R. HENLEY,
Clerk of the Council.

Council Offices,
Delph Lane,
Whiston,
Near Prescot, Lancs.

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For further particulars and Form of Tender, apply to the undersigned, to whom completed Tenders should be returned not later than 25th FEBRUARY, 1961.

R. E. RICHARDSON,
Director of Education.

Education Office,
Eleanor Street,
Grimsby.

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

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One Drott Skid Shovel with special equipment.

Offers are also invited for the Disposal of a number of Vehicles and Plant.

Full particulars and tender documents may be obtained upon application to the Borough Engineer and Surveyor at the undermentioned address.

Completed Tenders must be returned, in the envelopes provided, so as to be received by The Worshipful the Mayor, Town Hall, Barking, Essex, not later than 9 a.m. on MONDAY, the 20th February, 1961.

E. R. FARR,
Town Clerk.

Town Hall,
Barking, Essex.

LONDON COUNTY COUNCIL.

QUANTITY SURVEYOR, A.R.I.C.S. preferred. Up to £1,250, starting according to qualifications and experience. Also ASSISTANTS (Intermediate Standard preferred), up to £950. Superannuation scheme. Apply CHIEF OFFICER (A1/C/305/2), L.C.C. Parks Department, County Hall, S.E.1 (WATerloo 5000—Ext. 8076).

BOROUGH OF EALING.

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TEMPORARY RESIDENT MAIN DRAINAGE ENGINEER. Salary £1,500 per annum, inclusive. Experience in construction of sewers in trench and heading, and reinforced concrete, essential. Contract commencing May, 1961, approx. Application forms, with full particulars of conditions of service, from Borough Surveyor, Town Hall, Ealing, W.5. Closing date, 13th MARCH, 1961.

E. J. COPE BROWN,
Town Clerk.

SURVEYOR REQUIRED by progressive Midlands building company with extensive programme in Leeds/Sheffield area. Must be fully experienced in site measuring, interim and final accounts, and preparation of quantities for estimating purposes.—Write, stating age, experience, and salary required, to Chief Surveyor, INDUSTRIAL DEVELOPMENT AND CONSTRUCTION, LTD., Industrial House, Stratford-upon-Avon.

ASSISTANT CASHIER, preferably with stores experience, REQUIRED by civil engineers for major contract at Hammersmith.—'Phone: Sloane 0781, or write to Box V.3532, "The Contract Journal," quoting Ref. NOP/2.

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EXPERIENCED CIVIL ENGINEERS REQUIRED by Manchester firm, for contracts in Staffordshire and Lancashire areas. Experience in site work and valuations essential. Must be willing to travel.—Write, stating age, experience and qualifications, etc., to Box V.3518, "The Contract Journal."

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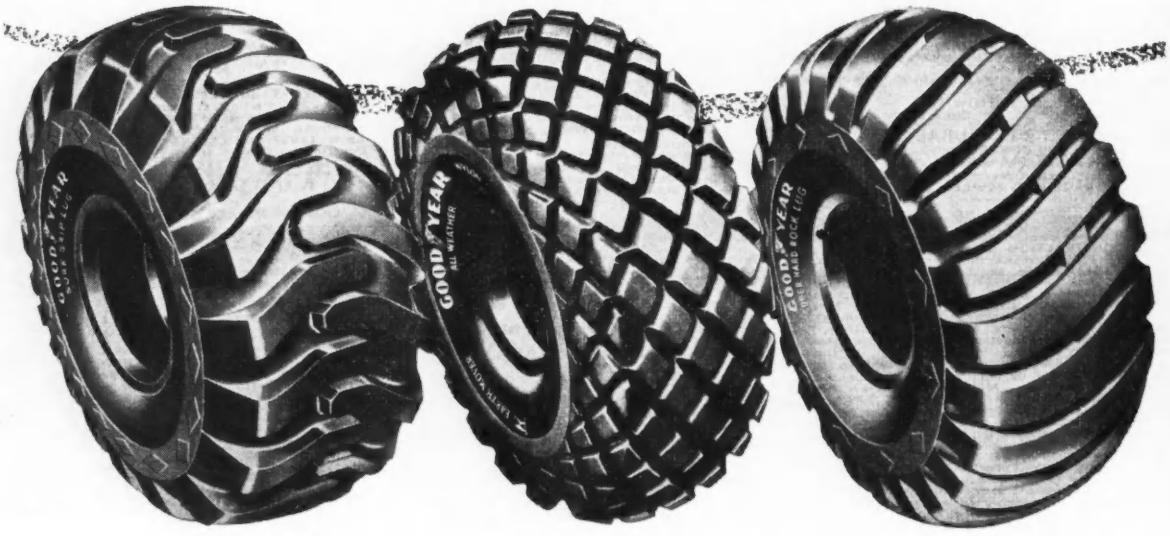

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Established 1879

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LAWRENCE McCARTHY

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

RESEARCH UNDER THE MICROSCOPE

IN 1958 the Research Council dropped a large stone in the then placid pool of research. It instructed its Economics Committee to investigate the research efforts of individual industries to ascertain whether they were adequate and corresponded to needs. The ripples—even waves—caused by that decision are just beginning to reach the shores of industry.

One direct result is the Report on Shipbuilding Research, the conduct and terms of which have caused much resentment in the shipbuilding industry. More generally, Parliament has probed deeper into research and public attention has been directed to the matter by the Press, radio and television.

The plain fact is that public funds of the order of £10m. per annum finance the bulk of industrial research in Britain, and it is only right that the public should be assured that their money is being well spent. Equally, it is necessary that British industry should keep itself in the van of development so as to meet foreign competition. On the latter score, the performance of British consulting engineers and contractors in the export markets would seem to give little cause for complaint. British consulting engineers are designing over £500m. worth of works in overseas countries every year, and the "exports" of British contractors, which have been increasing faster than those of manufacturing industry, have reached the £130m. per annum mark.

And yet three criticisms are levelled at the research effort in construction. First, in the words of the Advisory Council on Scientific Policy, there is a "serious deficiency"—this related to civil engineering. Secondly, there is a strong body of opinion that considers that the industry should make a greater financial contribution towards the cost of research—in 1958 a Select Committee of the House of Commons urged the Building Research Station to approach the question of recovering money from industry for individual research commissions with greater determination. Finally, there has been criticism that there is a sluggishness in adopting new research, particularly in the building industry.

The total cost of construction research is borne almost entirely by the Government, and the amount involved—over £1m. per annum—is so great that it would mean a major unheaval to attempt to switch the financing from the Government to the industry. Moreover, a case can be made out that this research is in the national interest as it helps to keep down capital cost of construction work. And it is also true that the ultimate beneficiary—the client—is quite often the same body that pays, namely, the Government. There is an added complication that a great deal of fundamental research is concerned with design, whereas the bulk of the "turnover" lies with the contractors. As far as method research is concerned, it is probable that the individual efforts of contractors to improve their own efficiency on the site is under-estimated. For example, D.S.I.R. had no hand in the pinnacle of efficiency reached by the opencast coal contractors.

Dissemination of research is all-important, and it is gratifying that the National Federation of Building Trades Employers has recently established its own technical inquiry bureau. However, it is no use having water available if the horse will not drink it. Small builders, in particular, often seem to pay scant attention to new developments. It has, perhaps, to be left ultimately to the forces of competition to put the situation right.

D.S.I.R. is endeavouring to derive more finance from the constructional industries by charging out individual research commissions at cost. But there still seems to be a case for the industry showing the flag in a more general way. And the civil engineering industry is about to launch an important research effort.

A Civil Engineering Research Council, supported by the Institution of Civil Engineers, the Association of Consulting Engineers and the Federation of Civil Engineering Contractors, is being formed. The Council has already been guaranteed an income of £20,000 per annum by equal contributions from consultants and contractors, and it is hoped by further appeals to raise the income to at least £50,000 per annum. The purpose of the Council will be to commission research on matters relating to civil engineering and to publish and disseminate the results. Wisely, the Council proposes to utilise the services of existing research establishments, including the universities, and there is no question of setting up a new research centre.

This new body should constitute a valuable supplement to the existing research effort in civil engineering. It should, in particular, help consultants and contractors to further their efforts in winning overseas contracts against international competition. And it certainly shows that the civil engineers mean business in the matter of research.

A LAWYER CONSIDERS . . .

Liability for Employees' Acts—Employees' Expenses

BECAUSE an employer employs people to do things which may cause harm to other people it has for long been a principle of our law that if that harm occurs as a result of something done by the employee during the course of his employment his employer is equally liable.

This may seem unfair especially when what the employee has done was, though in the course of his employment, thoroughly careless and even contrary to express orders of his employer. However, since most employees could never pay for the damage they have caused and employers are more capable of paying (usually by insuring themselves) it is a rule which is accepted as the only practical way of doing justice to the person who has suffered the damage. It is of course open to the employer to claim in full from the employee any damage he may have had to pay out for the employee's negligence while in the course of his employment; but this is scarcely possible where heavy damages are involved. Of course, as mentioned above, this is a liability employers insure against but, as in all cases where insurance is involved, a good claims record can keep premiums to a minimum; anything employers can do therefore to encourage employees to be careful and prudent will help to keep down overhead costs.

A recent case on this important topic, *Hilton v Thomas Burton, Ltd., and another* [(1961) 1 All E.R. 74] illustrates the extent of this vicarious liability, as it is called, of an employer for the wrongful acts of his employees committed during the course of their employment. H was a foreman of T.B., Ltd., a firm of demolition contractors. The other defendant was a fellow employee F. In 1957 F and five other men were doing demolition work some 30 miles from the company's premises. The usual practice was for F and this gang to be driven in one of the company's vans which was fitted to carry passengers. A workman S was the usual driver but the company had authorised any workman with a valid driving licence to drive the van. In regard to the gang's food during work away from the company's premises the company did not mind whether the men took their food with them or went away from the demolition site to eat. The company were apparently willing for the men to use the van for this travelling to get food or for any reasonable purpose of their own.

One morning S drove the van to the site with the gang, including H, as passengers. On the way they stopped for a cup of tea at a cafe; work was adjourned at 12.30. Three men including F. and H went to a pub for a drink for about an hour; on returning to the site they brought food and ate it there. These three men apparently decided that they had done enough work and they sat about till 3.30. They then went with one other man to a cafe for tea using the van and leaving the rest of the gang on the site. When nearing the cafe they realised it was about 3.50 and too late to stop for tea if they were to pick up the rest of the gang and return to the company's premises. On the return to the site, with F driving, the van overturned on a curve through F's negligence and H was killed. Apparently on no previous occasion had the men gone off to tea in the afternoon in this way.

H's widow claimed against T.B., Ltd., on the ground, *inter alia*, that they were liable vicariously for F's negligence in driving which was the direct cause of H's death. Mr. Justice Diplock clearly stated the law. "Are the company liable, vicariously, for the negligence of F? I think the true test can best be expressed in these words; was F doing something that he was employed to do? If so, however improper the manner in which he was doing it, whether negligent . . . or even fraudulent . . . or contrary to orders . . . the employer is liable. If however, the servant is not doing what he is employed to do, the master does not become liable merely because the act of the employee is done with the employer's knowledge, acquiescence or permission."

The company admitted certain facts in favour of the claim that they were vicariously liable for F's negligence; that the employees were permitted to use the van, and that the company did not mind much what hours the men worked so long as a reasonable amount of work was done. But the court felt that these admissions did not settle the matter nor did the fact that in previous cases it had been held that employees going to get meals during their working day were still in the course of their employment. The real question the court had to answer was—was F, in the actual circumstances of this case doing what he was employed to do? Mr. Justice Diplock's answer to this seems, with respect, to be completely correct: "Looking at the realities of the situation, it seems to me to be clear beyond a peradventure that what happened was this. The four men, having taken the view that they had done enough work to pass muster, were filling in time until they could go back to the company's depot and draw their pay. This seems to me to be a plain case of what was, in the old cases, sometimes called going out on a frolic of their own. It had most tragic consequences, but it does not seem to me that it is possible to hold (though I would like to if I could) . . . that on the course of that journey F was doing anything that he was employed to do. It may be said he was using his employer's vehicle with his employer's permission but . . . that is not enough. The true test is: was he doing something that he was employed to do? I think that on the facts of this case he plainly was not." The company were therefore held to have no liability for this accident which had caused H's death.

Employees' Expenses

IT will often happen that employees, especially senior ones, are encouraged to take on certain activities which will assist them in discharging their duties more effectively. If these activities cost the employee money then the employer will often reimburse him. Unfortunately certain tax difficulties arise and the case of *Brown v Bullock* [(1961) 1 All E.R. 206] illustrates this point.

The facts were that when a bank manager was appointed by the Midland Bank, Ltd., he was encouraged and indeed instructed to foster local contacts and to join local clubs; in fact club membership was, for certain managers, virtually a condition of their appointment. Thus for 40 years the manager of the bank's Pall Mall branch had joined the Devonshire Club. A newly appointed manager B continued this tradition and joined the club; he used it to return hospitality received from bank customers and occasionally to lunch with customers. He was also a member of the R.A.C. Club and the bank felt that this was an advantage and he was encouraged to remain a member. The bank paid his total subscription to the Devonshire Club and half his subscription to the R.A.C. Club; this amounted to £27 and this sum was added to B's income for tax purposes, being regarded as part of his emoluments.

B then claimed that the subscriptions were an expense and should be charged against his income thus reducing it for tax purposes by £27. To sustain this claim B had to show, under the very strict rule relating to the expenses of employees, that the money had been spent "wholly, exclusively and necessarily in the performance" of the taxpayer's duties as bank manager. The court felt that the reimbursement to B of half of his subscription to the R.A.C. club showed that the bank thought that the other half of the subscription was for B's own private purposes; therefore it could not be said that this subscription was *wholly* paid in the performance of the taxpayer's duties. The court, however, found the question of the Devonshire Club subscription more difficult; as the court said, "The real purpose of the taxpayer's belonging to the Devonshire Club is to assist him and make him more useful to the bank by reason of his membership . . . but it seems to me that, when the subscription . . . is paid and when the taxpayer visits the club to have lunch there, possibly to entertain customers, he is not really acting in the performance of his duties as manager of the bank. He is no doubt adding to his usefulness as a bank manager and he attends and belongs to the club for the purpose of his position as bank manager"; nevertheless, while correctly recognising the real reason for the manager joining this club, the court felt bound to decide that, on the narrow wording of the expenses rule, this subscription was not incurred by B in the performance of his duties as bank manager.

The case once again shows how difficult it is for employers to grant any benefits to employees without a resultant tax liability on the employee; this also applies, as *Brown's* case shows, where the benefit granted is not pure philanthropy by the employer but is done with an eye to the main chance. All employers of course know how important proper contacts are and, bearing the facts of *Brown's* case in mind, it would probably be wiser to make membership of a club, etc., an obligation of the employee in the sense that if he did not join he would be in breach of his contract of service—in other words make it legally binding obligation. If the employee could point to some such provision he would probably be in a stronger position than Brown was to argue that these club subscription expenses were incurred in the performance of his duties under his contract of service and therefore in the performance of the duties of his office as bank manager. One cannot be sure that this would be a conclusive argument in the employee's favour but, provided the obligation to join the club, etc., was one which could reasonably be argued to be connected with the employee's job, it would certainly provide an employee with a stronger argument than the employee in *Brown's* case could put up.

One may perhaps conclude therefore that it is wiser to include the social obligations of an employee as legally binding conditions of his contract of service. If this is done then any reimbursement to the employee of what he has had to pay out and which would be added to his income and then taxed as part of his income, could perhaps be justified as an expense provided always the social obligation for which this money was paid has some real connection with the employee's job.

ELECTRONIC COMPUTER IN BUILDING INDUSTRY

A one-day conference on the electronic computer and its use in the building industry is to be held at the Crawley College of Further Education on Friday, February 10, 1961. During the conference the electronic computer will be demonstrated, showing its application to building economies and other related problems.

Further details may be obtained from the Principal, Crawley College of Further Education, College Road, Crawley, Sussex.

NEW No. 5 DRY DOCK UNDER CONSTRUCTION AT BIRKENHEAD

WORK on the new No. 5 dry dock for Cammell Laird and Co. (Shipbuilders and Engineers), Ltd., at Birkenhead, is now reaching its final stages and it is anticipated that the dock will be ready for use by tankers of up to 100,000 tons deadweight by the second half of 1961.

The new dock is constructed on the site of the old No. 5 dry dock and partly on land purchased by Cammell Laird for the purpose. It is 950ft. long, the entrance is 140ft. wide and the barrel 148ft. wide. Sill level is 5ft. below Liverpool Bay Datum, giving a depth of water over the sill at mean high water spring tides of approximately 34ft. Quay level at 43.00 is some 10ft. above the highest recorded tide level.

The dock has vertical sides formed over the greater part of its length by the natural strata of red Bunter sandstone. Above rock level the sides are of mass concrete. The floor is of sandstone rock with a concrete surfacing. Along both sides below quay level are continuous open reinforced concrete galleries. These carry the various services required at the dock and for servicing the ships, and provide access to the underground sub-stations, switchrooms, control room and pumphouse.

On both quays are situated electric capstans, bollards, etc., for handling the ships moving into and out of the dock and additional service points are provided in manholes on the quays. Both quays have rail tracks connected to the yard system together with tracks for portal cranes. On both the north and south sides, 15-ton cranes are to be provided, and on the south side is a further crane, lifting 50 tons at 100ft. radius and 6 tons at 163ft. radius.

The keel blocks are of cast-iron with timber capping. Side shores will not be used in the dock as the stability of the ships will be maintained by means of 14 pairs of adjustable bilge blocks.

Entrance Gate

The entrance gate will be a sliding caisson. Because of the proximity of No. 4 dock there is not sufficient space to provide a camber for a straight gate. The gate has therefore been made as an arc and the camber curves in behind the north gallery. The gate will be operated by a large double-drum electric winch mounted on the gate itself. The entrance and gate are also designed to allow water to be impounded in the dock, so that ships' engine trials and other tests may be carried out. An outer stop position is provided, into which the gate can be floated when the entrance requires inspection. Maintenance work can be done on the gate itself in the camber, since stop log recesses are provided at the camber entrance.

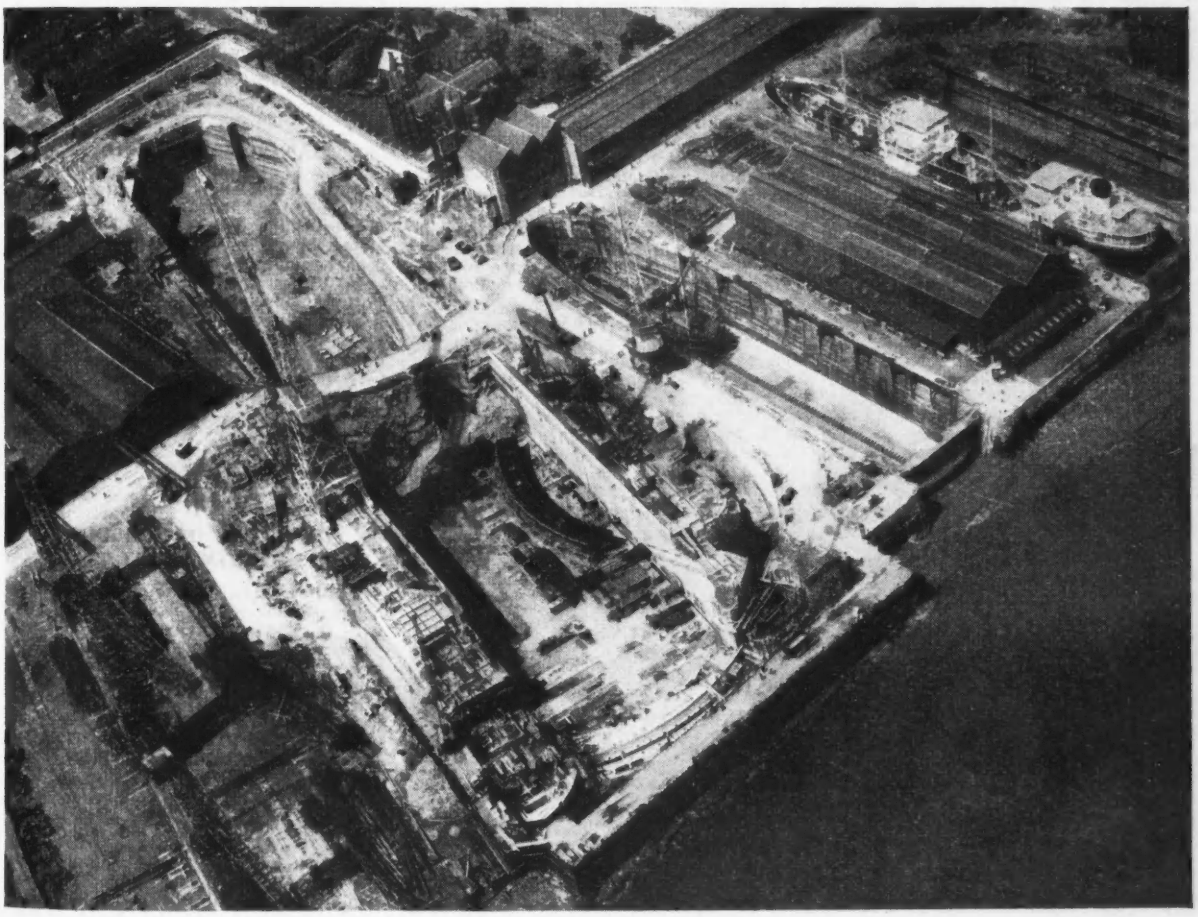
Construction has been carried out with little interference to the normal shipbuilding and ship repairing activities adjacent. Consequently the site was handed over in twelve areas as each became available. Existing quay facilities which had to be demolished included a power station chimney and three tower cranes, all of which were felled in a very restricted area. Excavation of the red Bunter sandstone was carried out by two 37 R.B. and one 38 R.B. shovel excavators loading into Leyland 10-ton Hippos, and amounted to approximately 300,000 cu. yd. The spoil was used to reclaim land for Cammell Laird in their South Yard and also to reclaim land for the Mersey Docks and Harbour Board at Dingle.

Blasting had to be carefully regulated to avoid vibratory damage to the nearby ancient Birkenhead Priory ruins and parish church and also to prevent damage to the ships under construction on the nearby slipways. Generally, the blasting was carried out in 7ft. benches using 1¼in. diameter P.A. gelignite and averaged 3.8 cu. yd. per lb. of explosive. Siskol rock cutting machines were modified and fitted to a self-propelled traversing carriage to cut around the periphery of the dock; this isolated the explosion, minimised the vibratory effect and avoided overbreak.

Temporary Cofferdam

The temporary cofferdam constructed around the entrance of the dock is 358ft. long and is formed of rock filling inside a double wall of No. 3 Larssen piling, 23ft. apart. The piles were "pitched" into a toe trench dug during low tide periods and concreted in.

The north roundhead, being loaded from either side and of restricted width, was designed to be anchored to the rock by means of 20 prestressing anchorages. Each anchorage comprises six 1⅛in. cables, 90ft. long, grouted into holes drilled 47ft.



Aerial view of dock taken in May, 1960, showing cofferdam, roundheads, pumphouse, camber under construction. Note access bridge for dockyard traffic, which had to be maintained until September and necessitating access tunnel under for construction traffic

View from head of dock looking toward river and cofferdam showing Birkenhead Parish Church and access ramp on left-hand side of dock

into the rock, with each strand stressed to a loading of 47 tons.

The concrete sill is 8ft. thick and is anchored to the bedrock. During the drilling of the anchor holes it was apparent that there were fissures present in the rock so the whole area was pressure grouted. The watertight meeting face is of granite on the dry dock face and precast concrete on the riverside face when water is being impounded, both surfaces being dressed to a fine degree of tolerance and to 160ft. radius along the centre-line of the gate.

The structural weight of the curved caisson gate is approximately 760 tons, ballast weight 780 tons and 40 tons trim water. The gate when moving has a preponderance of between 40 and 80 tons and is operated when tide level is above +21ft. L.B.D. (Neap Tide level).

The dock pumphouse is a reinforced concrete structure below quay level and it forms the south roundhead of the entrance. The two main de-watering pumps, each driven by 1,079-h.p. diesel engines, will de-water the dock in under four hours. Cross connections controlled by electrically operated valves enable the pumps to impound water in the dock and also to de-water No. 4 dock, a connection to the latter having been made by a culvert constructed under the floor of the new No. 5 dock. Auxiliary electrically driven pumps provide for dock drainage, ballasting ships in dock, and fire services.

Both the pumping plant and the entrance gate are operated from a control room located above the pumphouse with a window facing the dock entrance.

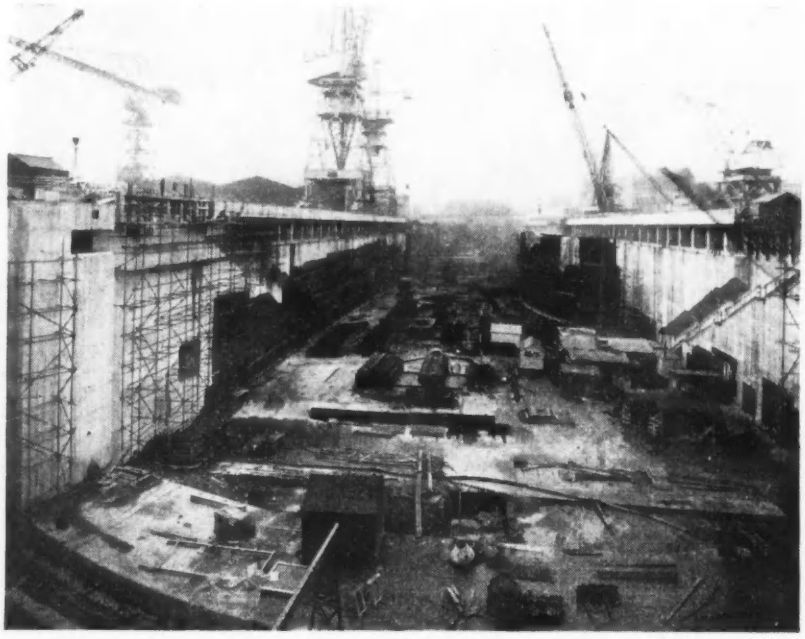
In addition to the salt and fresh water, compressed air, steam and electrical services, there is a pipe connected to bunker oil storage tanks and a pump in the north wall of the dock.

Underground sub-stations and switchrooms sited around the dock contain transformer cubicles as well as the distribution and control gear for the electrical services.

The consulting engineers for the project, Rendel, Palmer and Tritton, 125 Victoria Street, London, S.W.1, are represented on site by Mr. B. J. O'C. Donelan, B.E., M.I.C.E. The main contractors are A. Monk and Co., Ltd., Padgate, Warrington.

The principal sub-contractors are: Caisson gate and haulage gear—Sir William Arrol and Co., Ltd.; pumping machinery—Drysdale and Co., Ltd.; electrical installation—T. Clarke and Co., Ltd.

Cammell Laird have built this dock with a view to accommodating the largest type of vessels using the Mersey, including 65,000-ton tankers and upwards.



The cofferdam looking toward head of dock, showing pumphouse, two new travelling cranes on left-hand side and caisson gate under construction in dock

CITY OF LONDON'S NEW LANDMARK

Of unusual hexagonal shape, the tower of Kempson House, a £400,000 office block now completed by Myton, Ltd., forms a new landmark at what will be the eastern end of Route 11, the City of London thoroughfare.

With the main entrance in Camomile Street (which is to be widened), Kempson House backs on to Houndsditch and also on to a new road to connect these thoroughfares.

Total office space, in this building of 13 storeys and the ground floor, is approximately 60,000 sq. ft., including the ground floor shops. Car parking facilities include an underground park with entry and exit controlled by a system of traffic lights, further parking facilities, principally for visitors, are at ground floor level by the main entrance.

The elevational treatment of granite, Portland and artificial stone with large window areas, has been designed by the architects, C. Lovett Gill and Partners, F/A.R.I.B.A. to meet the requirements of the developers and the City Corporation, and was submitted to the Royal Fine Art Commission. The building owners are the Wool Exchange and General Investments, Ltd.

MANCHESTER TO HAVE PARKING METERS

Manchester City Corporation's scheme for providing more than 700 parking meters in the central area of the city has been approved.

Mr. Ernest Marples, Minister of Transport, announced last week that he has decided to make an Order designating the places on the highway where charges may be made for parking in Manchester. The City Corporation itself will make an Order to prohibit waiting at other places in the Zone.

Manchester is the second provincial city to have a parking meter scheme approved, Bristol having been first.

INSTITUTE OF BUILDING ESTIMATORS

The Intermediate and Final Examinations of the Institute of Building Estimators will this year be held on Wednesday, Thursday and Friday, May 24, 25 and 26, at the Royal Society of Health, 90 Buckingham Palace Road, London, S.W.1.

Applications to sit for the Examinations are to be made by not later than April 30, 1961. The headquarters of the Institute are at 10 Cromwell Place, South Kensington, S.W.7.

The 17 precast pretensioned prestressed concrete beams for the deck of the Slade Green bridge (*The Contract Journal*, January 26, 1961), each 71ft. 6in. long, were supplied by Anglian Building Products, Ltd., from their works at Lenwade, Norwich.

BUILDING PROSPECTS: MINISTER'S OPTIMISM

"1961 Might be Busier Still"

SPEAKING at the annual luncheon of the London Master Builders Association last week, Mr. R. H. M. THOMPSON, Parliamentary Secretary to the Ministry of Works, said that despite some gloomy forecasts in other sections of the economy he did not believe the building boom was over. The industry was very busy in 1960 and he would expect to find that in 1961 it might be busier still.

"Naturally this will depend to a great extent on the availability of materials," he continued. "It would be foolish to attempt any forecasts here, but if we plan our work well in advance I would hope to get through 1961 without too much difficulty."

The Minister was replying to the toast of "Her Majesty's Government" which was proposed by MR. E. J. COOK, B.Sc., M.I.C.E., M.I.Struct.E., F.I.O.B., retiring president of the L.M.B.A., who said the building industry, perhaps more than any other single industry, was in some way connected with and affected by almost every department of Government. The industry regarded the Ministry of Works as their own Ministry to which they looked for understanding of their problems and for support in overcoming them.

Ministry's Good Example

The Ministry of Works had set a good example in its operation of the firm-price tendering procedure. The importance of adequate documentation and detailed drawing preparation had been recognized by the Department. This good example had not, except on rare occasions, been emulated by other Ministries, local authorities and nationalised industries, and private architects and clients. This was of serious concern to builders, the more so in that genuine efforts to improve working efficiency were evident in firms of all sizes. These efforts were nullified, particularly where the firm price procedure applied, if the design process had not been adequately prepared.

Research and Development

Referring to the enterprise of some members of the L.M.B.A. who undertook research and development with new materials and new equipment, Mr. Cook said there was an inclination to believe that research and new developments took place in this country only in radar, electronics and the similar newer industries. The building industry put its finance at risk and demonstrated its flexibility in developing and producing new materials. In this connection it greatly valued the support of the Building Research Station, who provided so ably the unprejudiced investigations enabling the industry to ensure that new products would fill adequately the need they were designed to serve.

Incongruous

Speaking on the question of direct labour, Mr. Cook said that out of a total labour force in the building industry of some 1¼ million men, 300,000 men were employed in direct labour undertakings, and of these 186,000 were in the employ of local authorities.

"It seems to us incongruous that, particularly in the field of new building work, such a considerable volume of construction should be denied to our expanding industry," he continued. "We feel that the Government has indicated its intention to support private enterprise, and should not ignore the serious reduction of work load available to the industry, particularly as we are increasingly progressive in outlook and geared in management to additional further progress. We can understand that local authorities and similar bodies have a real need for a small direct labour contingent to handle the emergency work with which they are often involved."

Firmer Line Wanted

Asking for assistance in the field of housing, Mr. Cook said they thought the Minister of Housing could take a firmer line with local authorities in implementing his recent circular concerning increased densities for domestic development. They believed too he could assist them by encouraging local planning authorities speedily to declare their intentions concerning the future use of white land. Members who were active in the field of house-building were very concerned that local authorities had in some instances used compulsory purchase powers to acquire land for themselves against some uncertain future development, and in particular in those cases where the land had been compulsorily acquired from house-builders.

Training

Speaking of their efforts in the fields of apprenticeship and management training Mr. Cook said: "We certainly agree that some form of full- or part-time education beyond the school-leaving age is essential, and our industry is very active in support of this principle. Nevertheless, we feel there is a real danger of offering too much on a plate to our young people, and in particular that we may thereby run the risk of spoiling them. British determination remains substantially the same in all generations, and when challenged will rise to the occasion. We feel that our young people of today should be given the challenge of their chosen career, and should be expected to deny themselves some part of their leisure to further their own progress. A limited amount of night-school is, we believe, desirable, not only to engender an element of self-denial, but also because it enables the more senior and very competent technical staffs within our employment to undertake teaching at evening classes, as they would not otherwise be available without substantial cost and interference with their own business careers.

"In support of our industry's contribution in the field of education and training, I would claim that our scheme for the training of apprentices, under the umbrella of our National Federation, is reckoned by many to be the best of its kind for any industry in this country. The number of new apprentices indentured in London during 1960 has shown a welcome increase of 30 per cent. above the comparable figure for 1959. We are indebted particularly to a large number of our medium and smaller members for the great service they render to the community, as well as to themselves, by the taking of apprentices under this scheme. It will be appreciated that our larger member firms, whose work is spread over a greater area, have their own particular difficulties in this field of training, but they are constantly seeking to increase their intake of apprentices, and have evolved schemes to make this effort more fruitful.

Overseas Construction

"In relating the connection between our industry and the Government, it is gratifying to be able to refer to that august body, the Treasury," he continued. "Here I would like to emphasise the undoubted achievements of those of our members who carry out a substantial amount of construction work in undeveloped countries overseas. Much of this construction activity is civil engineering in character, but there is also much building work involved, and you will know that the firms concerned in both types of construction are very often the same.

"The value per annum of work undertaken overseas by British firms is of the order of £120 million, and represents a worthwhile contribution in the field of exports. Let no one think that this kind of activity is lightly undertaken, for it represents a considerable demonstration of management courage within our industry, and also displays traditional British enterprise among the young men and women who staff these operations.

"Living conditions in many of these countries are trying, and the people involved lack the cultural interests which are available to them in this country. If we are to continue to make this contribution in the field of exports, and moreover to expand its size, then we must see that these young men and women who work on these projects are adequately rewarded."

Minister's Reply

In his reply Mr. R. H. M. Thompson said there was no doubt that in their experience fixed-price tendering had been a success. The industry had co-operated extremely well and they had not found builders reluctant to submit competitive tenders, nor had they in the Ministry's view added heavy contingency provisions to the basic tender prices to cover themselves for possible increases in the cost of labour and materials.

"This has been a most useful contribution from the industry to the economic stability of the country," he continued. "The success of the policy, together with the stability in prices of building materials, which has been maintained for quite a long time, has been a material factor in the improvement of conditions since 1957."

The Minister said he was also very glad to hear the references made to progress in research and development work initiated and financed by individual firms risking their own money in producing new materials and new techniques. This process was vital if contractors were to keep up in these tremendously competitive times not only in this country but in the ever important export field overseas.

A new chemistry laboratory had recently been completed at the Building Research Station at a cost of £220,000 and they would shortly be starting on some buildings for the physics division which would embody many special needs which the Building Research Station had asked for. But it was not only Government research that counted. Every time builders completed a new building something was added to the stock of experience; the essence of the problem was to apply the lessons to future construction. One approach the Ministry of Works had used had been to set up development groups of all the interested parties, clients, architects, engineers, administrators, to look again at established methods of handling long accustomed requirements and to see whether they could be improved upon.

"The Government has, of course, no monopoly whatsoever nor does it seek one in research and development work but it does believe that through these agencies it can give valuable assistance to your industry, which can never afford to stand still however large the order books may look for the time being.

Land Problem

"On the apprehension expressed that in the important field of housing a sufficiently firm line is not being taken with local authorities in implementing the recent

circular concerned with increased densities for domestic development and that local authorities in some cases have made excessive use of their compulsory powers to acquire land for themselves from house builders, I do assure you that this circular is not in practice being ignored," stated the Minister. "I know the Ministry of Housing are aware of many cases in which building above the prescribed density is being permitted by local authorities. On other schemes which have gone to appeal the Minister has permitted the proposed development. Naturally, planning control still exists and the circular does *not* mean that any and every proposition will be allowed but the appeal to the Minister still lies if the decision of the local authority is adverse.

"Again I can assure you that the Ministry of Housing and Local Government scrutinises very carefully all applications for powers of compulsory purchase, particularly where the land is in the ownership of private developers. There are statutory responsibilities laid upon local authorities which they just cannot ignore. When they clear slums the displaced occupants have to be rehoused and the sort of density commonly found in our older industrial towns, perhaps 60 houses to the acre, creates a rehousing problem in accordance with modern standards which is frequently insoluble without taking in more land. Many of the people who have to be rehoused are elderly and for them house purchase at their time of life is not a practicable proposition. Nevertheless, under the present administration more than half the house building that is going on is private enterprise development.

"Indeed, the greatest assurance I can give you is the note on private house building we have just issued. It is the first forecast to be made of the future level of private house building and stems from enquiries made in April and November last.

"Private firms who are building houses for sale on their own initiative expect to start work on 131,000 new houses during 1961. If this figure is reached it will be 15,000 more than the estimated starts in 1960.

Overseas Role

"In the drive to secure more export markets, which is vital to our whole standard of living, the building and construction industry has a very great role to play," continued Mr. Thompson. "The figure of £120 million represents an increase of 80 per cent. over a 5-year period and I hope you will keep this up. Apart from the quite obvious economic value to the country of these efforts, there is a prestige factor involved which is not to be under-rated. To a seasoned traveller like myself nothing is more heartening than to see the sign of one of this country's contracting firms over some development project, perhaps in one of the Commonwealth countries, or indeed anywhere overseas. We used to say that trade followed the flag—certainly a large construction contract, apart from the benefit it brings the contractor, opens the door for a whole host of additional potential exports and once a footing has been established in this way in a new market, the prospects of increasing our whole performance in that country are greatly improved.

"I realise that activity in the export field involves risk, and the secondment of skilled personnel by the firm concerned which could probably be more profitably employed at home, but it is absolutely vital we should not be content with just taking up our share of the assured business in this country. We have always been a nation of risk takers; how else could this small island have fed its large population and spread its influence throughout the world? I know what good work is being done in exports now but I do hope that we shall redouble our efforts because it is in that field that there are great prizes to be won even though competition is of the keenest."

Cost-Plus Attitude

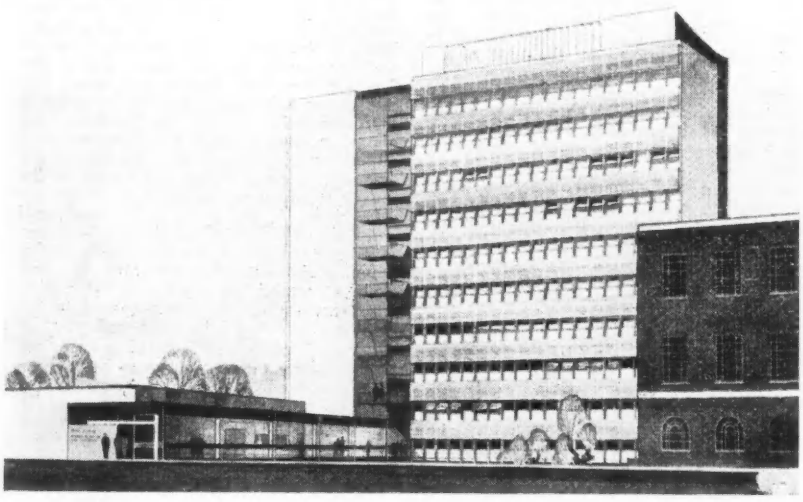
Concluding, the Minister stated in regard to management in industry: "Undoubtedly the war years, when all our resources had to be placed at the Government's disposal, and the crippling shortages which arose when the war ended, did combine to undermine the quality of some of our management and to blunt initiative and imaginative leadership. The restrictions are now only a memory but we still find some traces of the cost-plus attitude which those restrictions bred.

"Nothing is more debilitating than the persistence of this habit of mind in these desperately competitive days when the defeated are industrially on their feet again and the formerly young and inexperienced nations are rapidly coming to maturity and entering the field as vigorous low-price competitors. We can only beat this situation if we are more inventive, more resourceful, more cost-conscious, more ready to experiment and innovate than ever before. Free enterprise in short must be not only free but really enterprising—it is indeed a condition of remaining free. Let us get right away from that hangover habit of mind which calls for Government intervention at the slightest setback. There is no magic which will resolve the ordinary day to day problems of business in a competitive world except our own brains, energy and resource."

Election of Officers

At the annual general meeting held following the luncheon the following elections were made: President—Mr. R. F. Mansell, F.I.O.B. (R. Mansell, Ltd.); vice-president—Mr. P. H. Bates, F.I.O.B. (Thomas Bates and Son, Ltd.); junior vice-presidents—Mr. A. R. Mais, O.B.E. (Trollope and Colls, Ltd.), and Mr. L. J. Bradshaw, F.I.O.B. (Dearsley and Carter, Ltd.); honorary treasurer—Mr. K. J. Pearce, T.D., F.I.O.B. (Pearce Bros. Builders, Ltd.).

The following members were elected to the Council: F. V. Appleby (W. and C. French, Ltd.); C. T. Bates (Cawood Wharton and Co., Ltd.); L. H. Colls (Trollope and Colls, Ltd.); F. E. Gostling (E. Gostling (Builders), Ltd.); L. H. King (William King and Sons, Ltd.); F. R. Leadsom (Thos. Lowe and Sons, Ltd.); E. G. Miles (Fassnidge Son and Norris, Ltd.); D. C. C. Roberts (C. P. Roberts and Co., Ltd.); E. Smith (Rawlings Bros., Ltd.); F. L. Wallis (G. E. Wallis and Sons, Ltd.).



An artist's impression of the new electrical and mechanical engineering building proposed for Queen's University, Belfast. The building, which will have an extensive laboratory, is expected to be occupied by October, 1963, and foundation work is almost complete. Cruickshank and Seward, 196 Deansgate, Manchester, 3, are the architects, and the foundation contractors are Messrs. McKee, Belfast. Tenders have not yet been invited for the building

BOOK REVIEWS

Hotels and Restaurants in Great Britain and Ireland (The Official Guide of the British Hotels and Restaurants Association) 33rd edition, 1961. 512pp. Price 4s. 6d. post free, 3s. 6d. from booksellers and bookstalls.

The 1961 edition contains particulars of hotels, licensed and unlicensed, and licensed restaurants which are members of the Association, in Great Britain, Ireland, and certain Commonwealth Countries.

The main section of the Guide is composed of an illustration of each establishment, with a description of its size, situation, amenities offered and full tariffs. The Guide also includes road maps, a railway map of the United Kingdom, a map of the London area, mileage tables, and main road route diagrams showing distances between important centres.

Restaurants are easy to locate in the Guide, for they are listed separately under the various towns. The 1961 Guide is invaluable to travellers, whether on business or pleasure, but it is widely used, also, by leading industrial and commercial undertakings who find it of value when planning itineraries for executives, choosing centres for conferences, or for providing up-to-date information when calculating and adjusting subsistence fares for staff travelling on duty.

PLAN TO RAISE TEMPLES ABOVE ASWAN LAKE

The Ministry of Culture of the United Arab Republic is considering a plan by the Inspector-General of the Italian Department of Antiquities, for raising the Abu Simbel temples above the level of the lake to be formed by the Aswan High Dam.

The plan provides for the use of hydraulic jacks, centrally controlled and working at the rate of two millimeters each hoist, to raise each temple about 190ft.

The temples must first be cut from the escarpment into which they are carved. To build a dam around them would cost at least £15 million, it is estimated.

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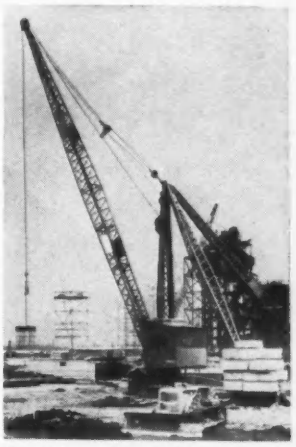

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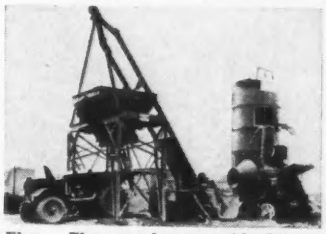

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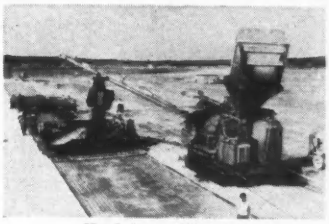

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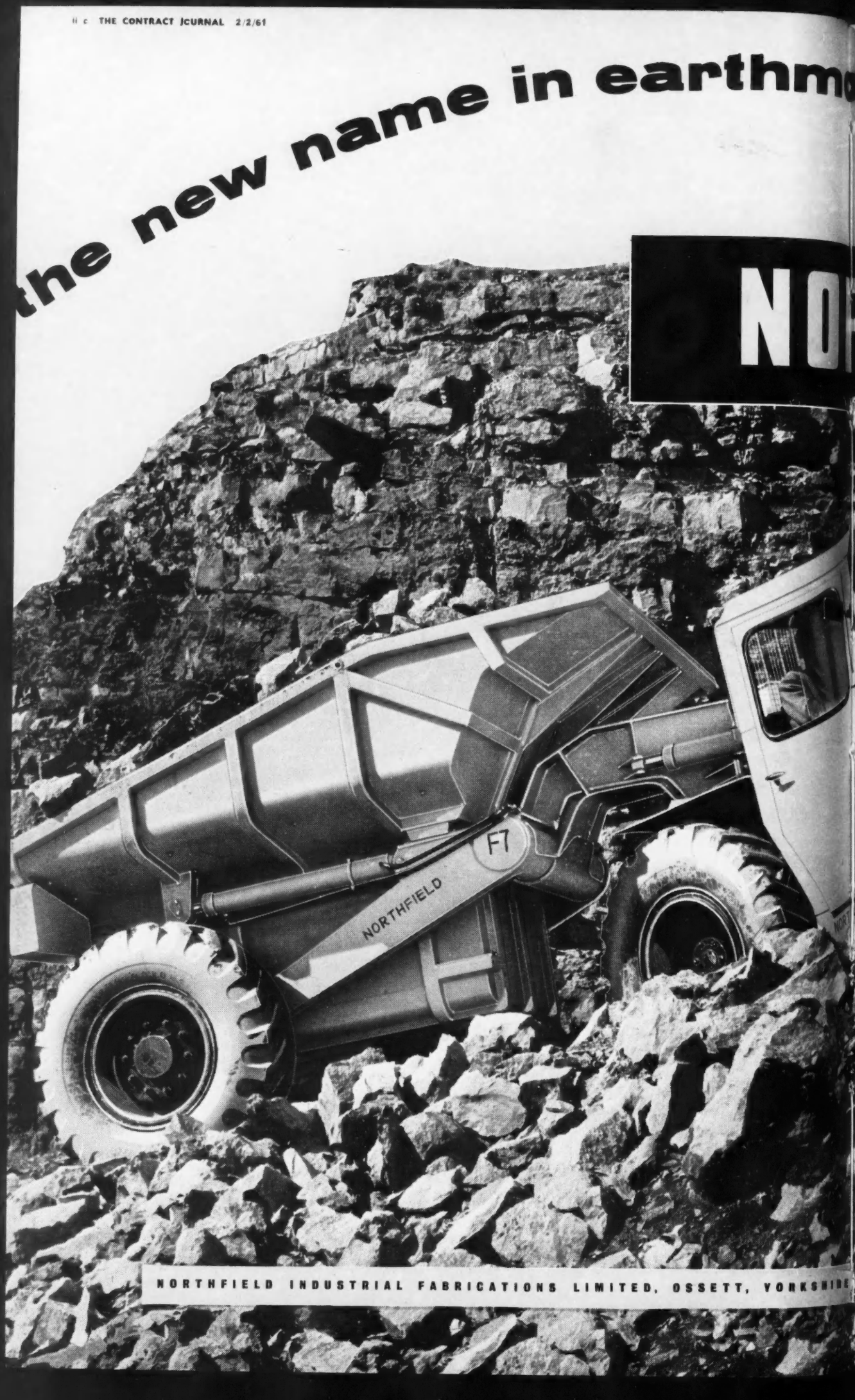
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MULTI-STOREY CAR PARKS "A CHALLENGE TO ARCHITECTS"

"THE horizontal spread of car parks is a luxury we cannot indulge in, and I reckon the time is not far off when a ring of multi-storey car parks will surround each of our cities and become a typical feature of our townscape, like the watch towers around the cities in the Middle Ages," stated F. F. C. Curtis, Dr.Ing., A.R.I.B.A., architect to the British Transport Commission, during the course of a Paper "Architecture in Transport," presented at the Royal Society of Arts last week.

He said that here was a challenge to architects, if only because of the triviality of the structures concerned: storage sheds for motor cars, with access ramps and a few ancillaries. Nothing, it would seem, to fire the imagination—and a tough economical problem, if car owners were to be enabled to afford the price of using these facilities. However, this challenge had already been met here and there, and there was no reason why this girdle of car towers should not be an adornment to cities. They would certainly be an improvement on kerb-side parking.

Elevated Walkways

There were immense opportunities for architects and engineers to exercise their ingenuity and imagination in the provision of elevated walkways—which had a forerunner in the "Rows" at Chester—subways, stairs, ramps, bridges and sheltered squares and gardens. The greatest care should be devoted to the sparing use of our limited space.

Although our present roads were incapable of accommodating the traffic on them, Mr. Curtis said a calculation of all the ground taken up by unused or usable roadways would produce a staggeringly large acreage. He continued:

In the design of buildings it is considered a normal exercise of the designer's skill to avoid wasteful corridors and to plan all the rooms in such a way that they do not contain useless areas, while at the same time avoiding the appearance of meanness as a result of economy. The application of the same skill is needed in the planning of roads and car parks, as well as in the planning of whole cities. We have not the space to throw away, we cannot go on losing agricultural land by housing 100 people on an area where 1,000 could live in comfort and with dignity—as well as a little more neighbourly and cosily than the widely dispersed 100—if the planners and designers really exert themselves efficiently and imaginatively.

The channelling and taming of motor transport and the segregation of living space may eventually deliver us from the networks of clotted traffic arteries which cut up our cities into hundreds of almost inaccessible islands, on which deafened fugitives have to seek the amenities of life and try to nurse their frayed nerves before the next plunge into the murderous battle of the roads.

It would rescue architecture from drowning in the turbulent sea of chaotic transport. Equally, it would preserve the countryside from becoming waste land between motorways.

Railways

When the railways first came into being, the humanist tradition was still alive. The problems facing the railway pioneers were comparable in their technical complexity to those which we have to face today in respect of motorised road transport and air transport. Yet, at any rate during the first two or three decades, these problems were solved in a bold and far-sighted manner and with great distinction. True, like all profound changes in the way of life, the change brought about by the introduction of railways resulted in the disturbance of old-established habits and institutions. Nevertheless, the new could stand up to comparison with the old and did not destroy human dignity, revolutionary though it was. Partly, this was of course due to the fact that there was more space for a smaller volume of transport in those days. Moreover, the railways were saved from creating the kind of chaos that road transport causes today because they were segregated on their own track. This is symbolised by the Doric portico at Euston, a gateway through which you entered the railway system on your way out of London, or entered London after the journey from Birmingham.

The railway pioneers had to satisfy entirely new requirements and execute works on an enormous scale. The building of the London to Birmingham railway, to mention only one, was a far bigger undertaking than that of the M.1, both in its physical size and in relation to the technical resources available at that time. There was no example to copy in the design of the train hall at Paddington or the workshops at Swindon. And, like the builders of our canals before them, they managed to mould the system into the landscape. They created bridges and viaducts of originality and lasting beauty. The early railway buildings were among the few real masterpieces of architecture in the Victorian era and modern architecture owes much to their example.

The increasing complexity of life in a country with an ever-growing population, the growing density of traffic, the uncoordinated competition between a multiplicity of railway companies and finally between different kinds of transport, the failure to cope with the human problems as well as with technical ones gradually led to chaos.

The old stations became too small to serve increased needs; excrescences, lean-to's and makeshift additions spoilt some of the finest railway buildings; the approach roads and forecourts became too small to accommodate the feeder traffic, the railway slums came into being and today present us with a formidable task of slum clearance.

Property Development

To pay for this, especially in the case of the large terminal stations, it will be necessary to exploit to the greatest possible extent the opportunities of property development. The terminal stations in London and some big provincial cities occupy positions ideally suited for development. Moreover, they can be developed without adding much to the traffic in congested city streets, since office buildings, flats, shopping centres and exhibition halls over a railway station can be reached direct from the station concourse by people arriving by train.

The creation of huge entirely new building sites where hitherto there were only tracks, platforms and sidings offers a chance for some of our new railway stations to become the focal points of fine new urban centres with a variety of human activities. It is, of course, important that this development should be comprehensively planned and of such architectural merit that it becomes an asset to the community.

Commercial building development has made a bad name for itself, because much of it is shoddy, architecturally dull and—being so often undertaken without any knowledge as to who will eventually occupy the buildings—inhuman.

It is also imperative that the stations themselves, being the life-giving elements of these new centres, should be buildings of distinction and not merely holes in the walls of office towers. This is another challenge to cope with monstrous size and a monstrous volume of traffic, of relating such giant complexes of traffic services and buildings to the small units of human beings and their needs.

Perhaps, in the not too distant future, the lid may be taken off the models which have been made of a number of such large development projects in various parts of this country and the public informed of what is to come?

Airport Buildings

The large passenger buildings at airports present similar problems to those encountered in the design of railway station buildings, except that they are completely isolated from neighbouring buildings. They also have not, as yet, to accommodate the large numbers of passengers that pass through a London terminus during rush hours. Their scale of accommodation and amenities is often more adequate for requirements than that to be found in the newest railway stations. No doubt this is a good selling point for air travel.

In sea transport we have, especially from the eighteenth centry, a great heritage of dockside warehouses, customs buildings and lighthouses. It is encouraging to see the good design of one of British newest lighthouses which shows that new forms can grow out of an old tradition.

C.M.P.E. BRANCH AT NOTTINGHAM

At a meeting of some 70 executives connected with contractors' mechanical plant held at the County Hotel, Nottingham, recently, it was decided to form a Nottingham branch of the Contractors' Mechanical Plant Engineers.

Mr. J. P. P. Gelder of Gaylord Edwards and Co., Ltd., Nottingham, was elected chairman, other officers elected being, vice-chairman—E. Raynor (Raynor Contracting Co., Ltd.); secretary—E. A. Beacroft (R. Cripps and Co., Ltd.); treasurer—Arthur Buxton (Gaylord Edwards and Co., Ltd.); social secretary — Derek Leeks (Bowmaker (Plant), Ltd.); liaison officer—Michael F. Kelly (Kelly Equipment Co., Ltd.). Committee members—A. Anderson (Highways Contractors, Ltd.); A. A. Trigg (H. R. Bagguley, Ltd.); W. L. Willoughby (W. L. Willoughby, Ltd.).

The next meeting of the branch will be held at the Flying Horse Hotel, Nottingham, on February 23, 1961, at 7.30 p.m. Further details of membership may be obtained from the secretary, E. A. Beacroft, 61 Trowell Road, Wollaton, Nottingham.

DUKE TO DELIVER GRAHAM CLARK LECTURE

When the Duke of Edinburgh delivers the Graham Clark lecture in London on April 13 he will be addressing a joint meeting of three engineering institutions—the Civils, Mechanicals, and Electricals. His subject is "Resources, human and material, of the Commonwealth."

The lecture is being delivered in the Great Hall of the Institution of Civil Engineers, Great George Street, S.W.1.

£9M. DRAINAGE REORGANISATION SCHEME

Approval in principle has been given by the Ministry of Housing and Local Government to a £9,870,350 scheme for the reorganisation of the Lower Tame Valley works of the Birmingham Tame and Rea District Drainage Board.

NEW TRAINING OPPORTUNITIES FOR THE CONSTRUCTION INDUSTRIES

From a Special Correspondent

THE Commonwealth Training Week, inspired by no less a personality than the Duke of Edinburgh, is designed to focus attention on the importance of training. The Week in Britain runs from May 29 to June 4 and is bound to be an event in which every industry will seek to show its paces. But there is another more sombre and disquieting aspect to this matter.

The system of technical education will, in the words of the recent White Paper (Cmd. 1254), only be able to make its full contribution if it is geared to the rapidly changing requirements of modern industry. And, says the White Paper, technical education has not kept pace.

The White Paper is, of course, concerned with British industry as a whole and with the sum total of the 500,000 young men and women at present taking technical courses, a total which, incidentally, the Government hopes to increase substantially. But the proposals will affect each and every industry and construction, with perhaps 80,000-90,000 men under training, will be no exception.

Construction Change

The constructional industries are, in fact, undergoing the most rapid change in their history. This was recognised at the N.F.B.T.O. Conference on New Techniques in 1959 when Mr. Lowthian said that more fundamental change had occurred in the last ten years than in the previous fifty and more still was likely to occur in the next ten years.

These changes are having a tremendous impact on the qualities and skills demanded of personnel at all levels. They have required better and more alert management at the top supported by qualified men not only conversant with new developments but also having the ability to apply them. This in turn has increased the need for technicians to relieve top personnel of routine work. And at the tradesman and operative level the changes are even more fundamental in character.

As the N.F.B.T.O. New Techniques Conference recognised, the traditional superstructure of craftsmanship is being undermined by the inexorable march of events. In essence, what has happened is that new materials, new machines and new methods have made it possible to design work down to a lesser degree of skill on the part of labour. This would have happened anyway, but it is fair to say that the shortage of really good craftsmen has accelerated the process.

Training of Craftsmen

The Government White Paper, although inevitably general in its terms, recognises this. It says that the traditional conception of the five-year craft course needs to be revised for it represents a high level of achievement which only a minority are likely to attain. It might be added, as far as construction is concerned, that the five-year craft course now represents a level of attainment which only a minority *need* attain. Experience of training native labour on overseas contracts has clearly shown that adequate skill for a particular operation can often be imparted in five or six months rather than five or six years.

It is, of course, true that there is a continuing need for the super-skilled craftsman such as should be produced by a five-year course. But it would seem that the majority could be trained adequately in, say, three years. The White Paper remarks that many students who become competent craftsmen do not get beyond the Intermediate Certificate. But it makes the point that the title "Intermediate" suggests incompleteness and is inappropriate. It notes with approval that in building the first award is now a "Craft Certificate" and the second is an "Advanced Craft Certificate."

The Technician

Just as there is a growing need for an intermediate grade of craftsman, so there is a need for an intermediate grade of qualified man—the technician. In this respect the building and civil engineering sides of the industry differ. The needs of building should be adequately catered for by the Institute of Builders and by the Ordinary National Certificate in Building. But in civil engineering there is no parallel qualification. Young engineers either get their degree or become "failed B.Sc." or "failed M.I.C.E." Obviously there is a need for an Ordinary National Certificate in Civil Engineering to provide an attainable qualification for the less gifted, but nevertheless very useful, young engineer, and the Institution of Civil Engineers has already come out publicly in favour of it.

Training Operatives

It is perhaps at operative level that the greatest scope for training exists. The White Paper points out that the vast majority of school-leavers go into jobs for which there are no training facilities but which, in highly mechanised industries, may require increasingly high degrees of skill. These words are directly applicable to construction, particularly on the civil engineering side. But because of the mobile and largely casual nature of the labour force, operative training, if it is to be a success, must be regarded as a broad industry effort. For it will inevitably happen that a firm will train a man only to lose him to a competitor. The Government clearly intends to increase day release schemes and expand the City and Guilds courses. There is little doubt that, despite the difficulties, the construction industries will benefit if they grasp the new training opportunities that will be thus afforded.

Differentials

Finally, the question of training cannot be divorced from the matter of rewards and the attitude of the unions. The Government's efforts are bound to be frustrated if the differentials between the trained and the untrained man do not provide sufficient incentive to the young man to knuckle down to a period of training. In particular, the present craft differential would seem to need reviewing, particularly in respect of the super-skilled craftsman.

Union Attitudes

As far as union attitudes are concerned, it is to be hoped that the craft unions will be as receptive to change as the labour unions always have been. But statesmanlike though the New Techniques Conference may have been, one only has to read between the lines to see that some, at least, of the craft unions see the present situation as a threat to both their status and their living standards. They recognise that the force of events makes it inevitable that changes will occur but they seem to be approaching the problem from a defensive rather than an expansive point of view. Obviously, the unions must protect the interests of their members but surely in the long run these interests would best be served by assimilating changes without restrictions and making sure that everyone shares in the increased prosperity that results. The time could not be more opportune for happily there seems to be no prospect of unemployment among construction workers in the foreseeable future.

DIRECT LABOUR: N.F.B.T.E. PRESIDENT'S ADVICE TO CONTRACTORS

"IN view of the sharp increases which are now being foreshadowed in the total expenditure of local authorities it is more than ever desirable that their various building schemes should be carried out in such a way as to promote efficiency and economy," stated Mr. D. E. Woodbine Parish, national president, at the annual general meeting of the South Wales Federation of Building Trades Employers, held in Cardiff last week.

"Attention has been drawn in reports published during the last year to examples of building work carried out by direct employment of labour by local authorities costing the ratepayers considerably more than if the work had been done by contract. These facts are not, however, generally known to members of the public; nor do they appreciate that, unless a direct labour department's estimates are continually checked in equal and open competition with the prices submitted by building contractors, complacency, inefficiency and over-spending are only too liable to develop.

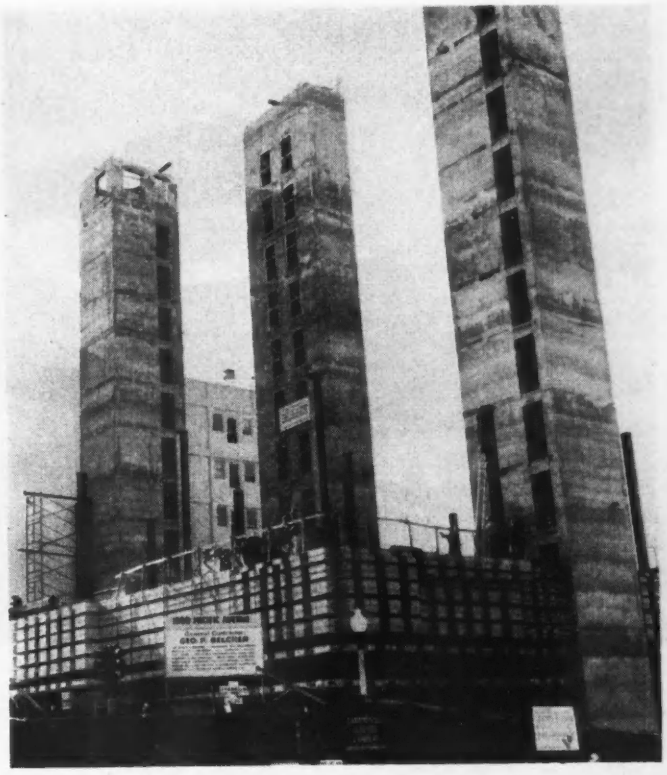
"It is because we believe that building by contract is inherently a more efficient method of carrying out work than building by direct labour that we are asking that tenders should be invited for every local authority project which is capable of being put out to contract. This includes a large proportion of local authority maintenance work, where there is ample room for improved efficiency.

"It follows that building firms must accept the responsibility of tendering, realistically and keenly, for local authority work in competition with direct labour departments. If they refrain from doing so, thinking that the scales are so loaded against them by vested interests or political prejudice that it is little use incurring the cost of preparing tenders, they are not only giving a free hand to those who claim that building work is best carried out by public corporations, they are also depriving the ratepayers of the principal safeguard against the waste of public money.

"If the builders in any area feel that they are not receiving fair treatment from their local authority, they should prepare a clear and impartial statement of the facts as they see them, discuss them with their local authority—as I am glad to learn the Cardiff Association of Building Trades Employers are proposing to do—and, then, if they do not receive satisfactory assurances, see that full publicity is given to them."

PRESTRESSED CONCRETE IN THE UNITED STATES

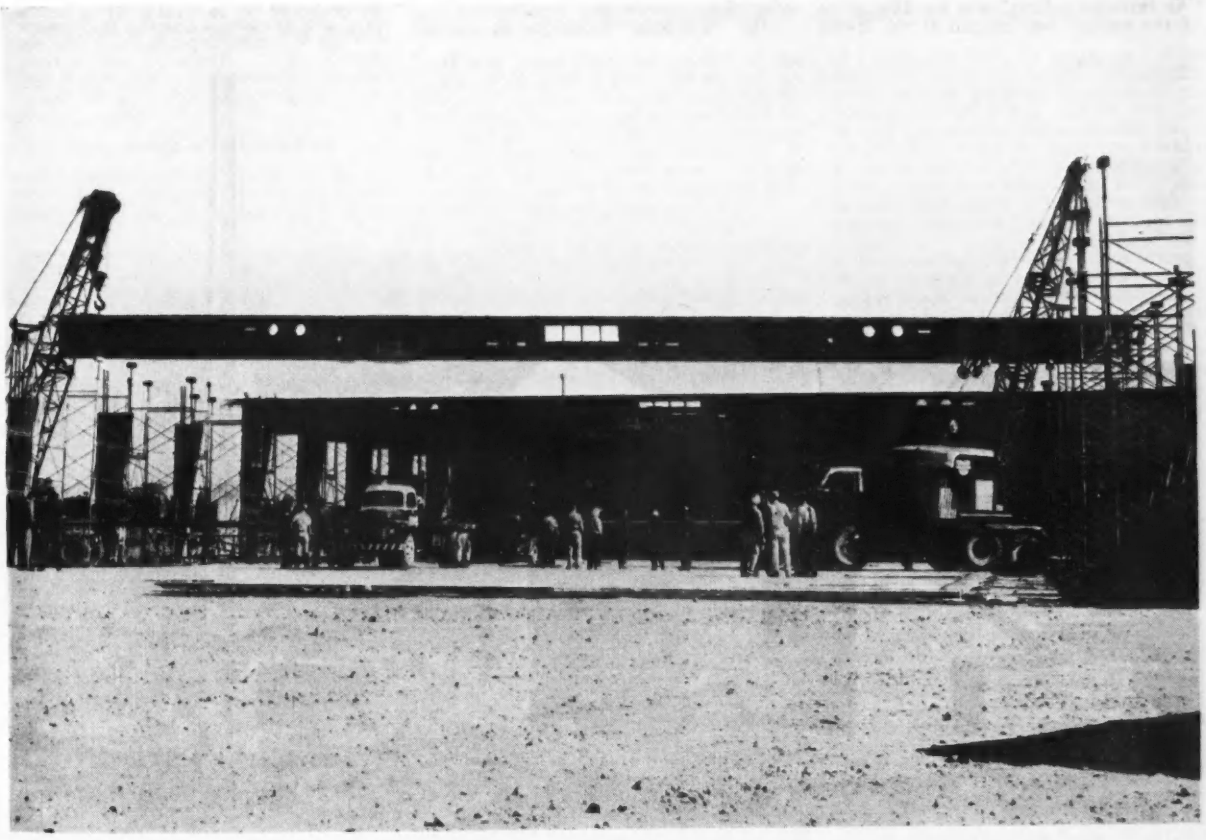
Professor Lin Lectures on Recent Developments



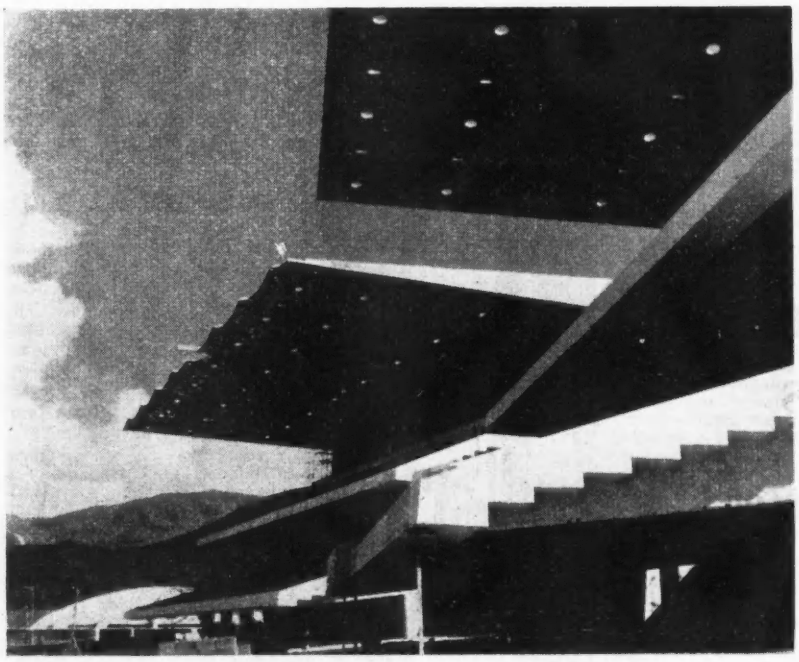
The 13 prestressed concrete slabs are being lifted into final position. Belcher Apartment Building, San Francisco

PROFESSOR T. Y. LIN, professor of civil engineering at the University of California, and head of the firm of consulting engineers, T. Y. Lin and Associates, spoke in London last week about recent developments in prestressed concrete in the United States.

Born and educated at Peking, and subsequently graduating as an engineer in the United States, the professor settled permanently in California in 1946. Since then he has become an internationally known figure in the world of prestressing, vice-president of the International Federation of Prestressing, general chairman of the



120ft. girder with holes for piping and air conditioning ducts—roof parking on structure. Telecomputing Facilities, Chatsworth, California



Caracas grandstand—90ft. cantilevers

World Conference on Prestressed Concrete held in San Fransisco in 1957, and author of numerous books and papers on prestressed concrete.

In his lecture, given under the auspices of the Prestressed Concrete Development Group, he concentrated on the application of prestressed concrete to buildings; he sees the great spans, and the large span/depth ratios, possible with prestressed concrete, as offering architects an entirely new concept in building design.

Like every thoroughgoing expert, he is able, through complete familiarity with his subject, to make it appear superbly simple. "An invisible column" was his description of the upward pull exerted at the lowest point of a curved prestressed cable: with his invisible columns he has done away with the solid ones to provide an office building with spans of 66ft. by 60ft., another (22 storeys high) with spans of 70ft., a factory (covering a million square feet) with clear spans of 120ft., a parking garage with factory-precast beams spanning 75ft. between precast columns, and 20ft. two-way prestressed slabs spanning between the beams.

He points to savings not only in space, but, immediately, in money: A garage—in Beverley Hills, California,—showed a saving of 25 per cent., or 200,000 dollars, over more conventional construction.

The "Lift-Slab" technique is another that he has adopted widely and adapted to prestressing: two-way-prestressed slabs only 6in. thick is his usual prescription for the floors of buildings of this type, and by it he has been able to include two additional floors in a given height of building.

Professor Lin also applies what he calls "three-dimensional prestressing" to thin shells and doubly curved shapes: a church with a hyperbolic paraboloid roof has spans of 150ft. and a 100ft. cantilever with a three inch thickness of concrete and an edge beam—dimensions impossible with a non-prestressed structure. The 90ft. cantilevered shells of the Grandstand at Caracas race-course was another of his jobs: "Simple" said Professor Lin—just "Balance the load." Everything, he added, is possible with prestressing, "if you know where to prestress."

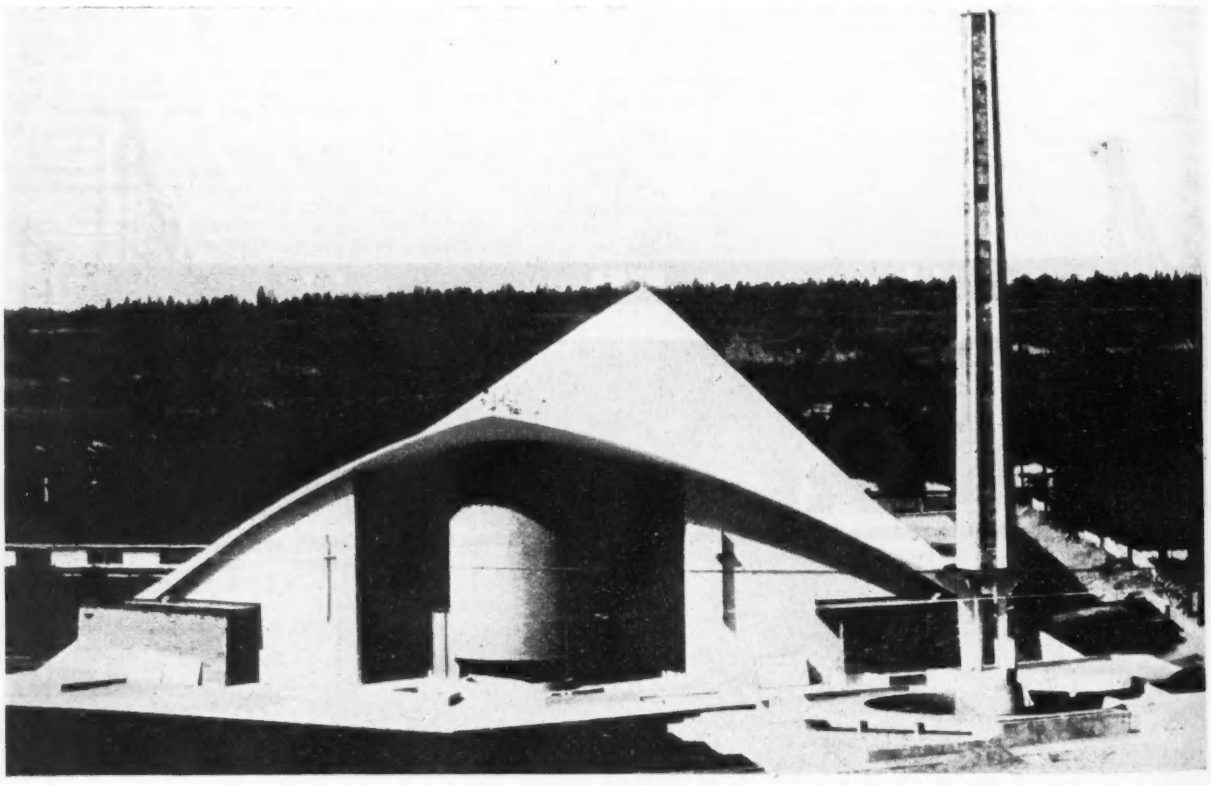
BIRMINGHAM-BRISTOL MOTORWAY

Extension of Contract Time

The Minister of Transport has agreed that an extension of time should be granted on the contracts for the northern section of the Bristol-Birmingham Motorway.

This decision was taken following a review of progress to date on the contracts for this 27½ mile length of motorway. These were let in the spring of 1960 to A. Monk and Co., Ltd., and the motorway was expected to be completed by November, 1961. Progress has, however, been severely hampered by the very bad weather which continued throughout the summer and autumn of 1960 without a break. This has caused such serious delay to the contractors' earthmoving programme that it would not now be possible to recover the time lost, even given the most favourable circumstances during the remaining period of the contract.

In recognition of the exceptional difficulties which have confronted the contractors so far and which have led them to seek an extension of the contract time, the Worcestershire County Council, as the Minister's agents, have authorised an extension of 26 weeks, giving a completion date for the work of May, 1962.



St. Charles Church, Stokane, Washington. Hyperbolic paraboloid span 150ft., 3in. shell thickness

A NEW METHOD OF HANDLING HOLLOW FLOORING BLOCKS

By H. G. Vallings, A.M.I.Mech.E

INVESTIGATION into methods of handling hollow clay flooring blocks on building sites showed that the blocks were unloaded from lorries either by hand, or with a crane and a special lifting cage. In the former case, the blocks were usually stacked on the ground and, at a later stage, loaded into wheelbarrows and lifted by hoist to the floor under construction. Unloading a typical lorry load weighing 7¼ tons by hand accounted for about 5 man hours.

Although the use of a cage enabled blocks to be unloaded and placed on the building in one operation, certain difficulties were apparent. In order to pick up a load the cage was lowered so as to enclose a stack of blocks, and bars were passed through the holes in the blocks forming the bottom layer so that, on lifting, the weight of the stack was transferred to the cage.

Blocks had therefore to be loaded on to lorries with a similar cage, or in the same pattern by hand, in separate stacks with division plates 3in. or 4in. thick inserted between them to maintain their formation when travelling. At the site it sometimes took as long as 1½ hours to remove these division plates, because in transit they had become jammed between stacks. Moreover, the system was not favoured by the block suppliers who had to provide the division plates and found that, on some types of lorry, their use considerably reduced the vehicle's payload.

Various methods by which blocks might be unloaded more efficiently with a crane were considered. As it was desirable that any method adopted should suit the transport and loading requirements of the suppliers, further investigations were made by the Building Research Station in collaboration with the London Brick Company, Limited.

Development of a Crane-Fork

For reasons already explained it was desirable to eliminate division plates, and stack the blocks close together to make better use of the lorries' capacity. It appeared that a crane-fork, with tines that could be insterted into the hollow blocks, would offer the best solution to the problem, because access would only be necessary from one side of the load and therefore division plates would not be required.

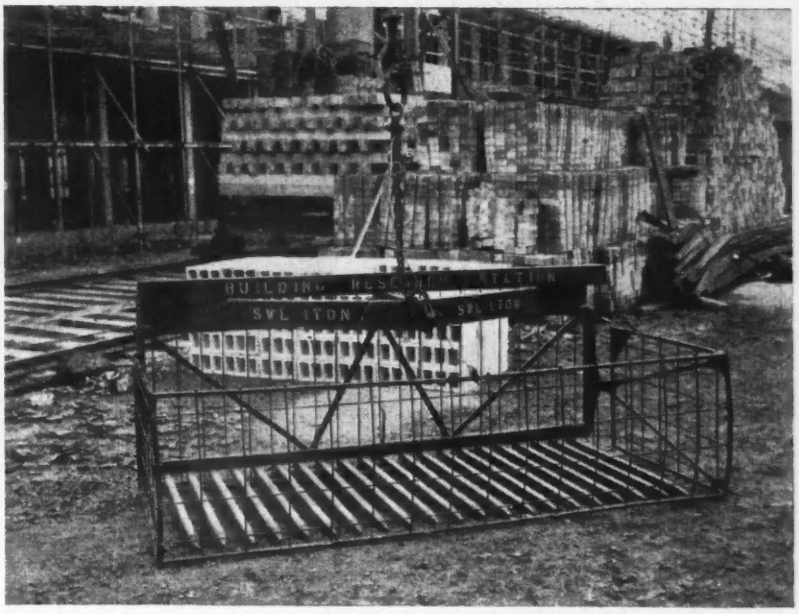


Fig. 1. The crane-fork with 21 tines, safety gate in closed position

It was found that the spacing of the tines would have to be varied to pick up stacks of all types of hollow block. However, since tines at 4in. spacing could be inserted into the 12in by 12in. rectangular hollow clay blocks of all thicknesses, it was decided to concentrate on a fork to handle this type of block, which was produced in large quantities.

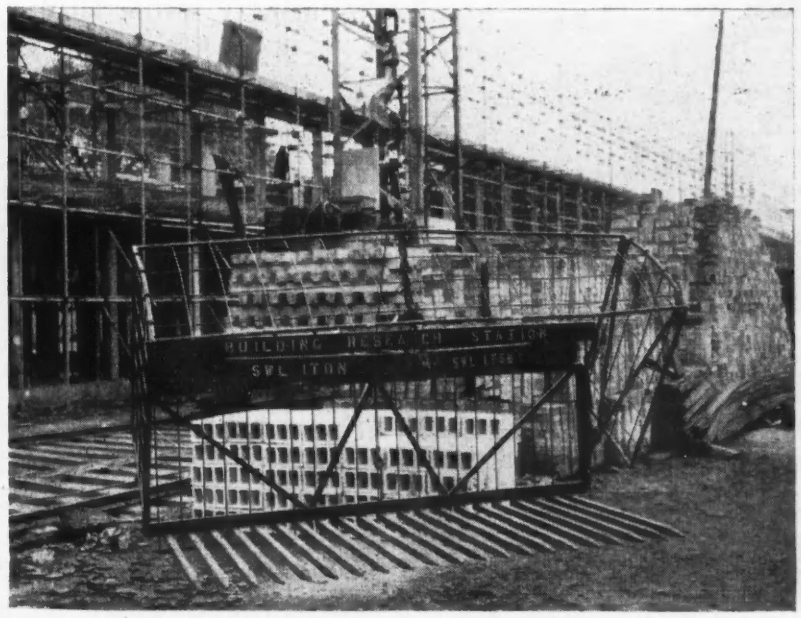


Fig. 2. Fork with safety gate open, ready to pick up a load

At one of their works, the London Brick Company had adopted a system in which lorry loads were made up of stacks, 6ft. by 3ft. in plan, handled by a fork-truck. An experimental crane-fork was made at the Building Research Station to handle a stack of the same plan area but of a height to limit the weight to 2,000lb. As it was intended to handle 12in. by 12in. blocks of 3in. to 10in. in thickness, the cross-section of a tine had to be small enough for insertion in the thinnest block. Therefore in order to limit the working stress in the tines, it was necessary to provide one for each of the three holes in each block forming the bottom layer of a stack. Thus the fork had 18 tines, 3ft. long.

Tests carried out with various arrangements of blocks on a lorry to form closely packed loads up to 5ft. in height, showed that the blocks maintained their formation well in transit when all the holes in the blocks faced the sides of the vehicle. The width of this load across the lorry was 6ft. and as the fork with tines 3ft. long had to be inserted from the side, a stack half the width of the load could be removed from each side of the lorry.

Several trials were carried out, using the experimental fork for loading vehicles at the works as well as for unloading on sites. The times taken for unloading 540 10in. blocks and placing them on the third floor of a building were: first load, 50 minutes; second load, 33 minutes.

On one occasion, when the lorry could not be driven on to the site, unloading took place while it was parked in a busy street. Entry of the fork had to be from the pavement for the whole load, as work on the other side was impracticable owing to heavy traffic. This caused obstruction to pedestrians and made the removal of the stacks from the side of the vehicle potentially dangerous because of the risk that blocks at the top of the stack might fall over the side on to a passing vehicle.

In view of these difficulties, the possibilities of arranging the loads on lorries so that entry of the fork could be from the rear were examined. Further road tests

showed that when all blocks were arranged so that their holes were accessible from the rear of the vehicle they maintained their formation well in transit with the width of the load increased to 7ft., when sheeted and lashed, as is normal practice.

The Building Research Station designed two crane-forks, one capable of lifting stacks weighing about 2 tons for loading lorries at the works, and one with a capacity of 1 ton for unloading on site. Both had 21 tines, 3ft. long, so designed as to handle stacks with a plan area of 7ft. by 3ft. The crane-fork for use by contractors, illustrated in Figs. 1 to 4, weighs 4cwt., and is fitted with a safety gate which prevents accidental dislodgement of blocks. In the event of the fork being lowered on to an obstruction that might tilt the fork forward the gate prevents the risk of the stack sliding off the tines. Before lifting the empty fork (Fig. 1) the thimble-end of a steel rope is engaged with a hook near the centre of the back of the fork. This ensures that, on lifting, the gate is opened automatically and also that the fork is suspended so that the tines are horizontal (Fig. 2). In this position the tines can be inserted into the blocks as in Fig. 3. The steel rope is now released from the hook so that, on lifting, the gate closes under the influence of its own weight until restrained by two short chains, and the fork assumes a slight backward tilt to ensure that it retains its load (Fig. 4).

In depositing a load, the fork is lowered until the bottom layer of blocks comes to rest after which the lifting chain is slackened sufficiently for the thimble-end of the steel rope to be re-engaged with the hook at the back of the fork. The slack in the chain is then taken up, the gate is opened automatically and the fork can be withdrawn from the stack.

Trials

During trials extending over a period of two months, blocks of 4in. to 10in. thickness were handled successfully by both forks. The number of stacks that can be carried on a lorry depends upon the size of the vehicle. The A.E.C. "Monarch," for example, was loaded with five stacks handled by the larger fork at the works and unloaded in ten stacks with the smaller fork at the site. Fig. 3 shows the pattern adopted for loading 9in. blocks on a lorry. At the works, stacks the full height at this load (six courses high), were handled with a larger fork. At the site, the smaller fork removed stacks three courses high, as illustrated.

The gang used for the unloading operation consisted of the crane driver, two men on the lorry for inserting the fork and two men for placing the load and withdrawing the fork. The majority of the stacks were placed direct on the shuttering for the floor under construction, but some were placed on the ground and lifted by crane and fork on to the building at a later stage.

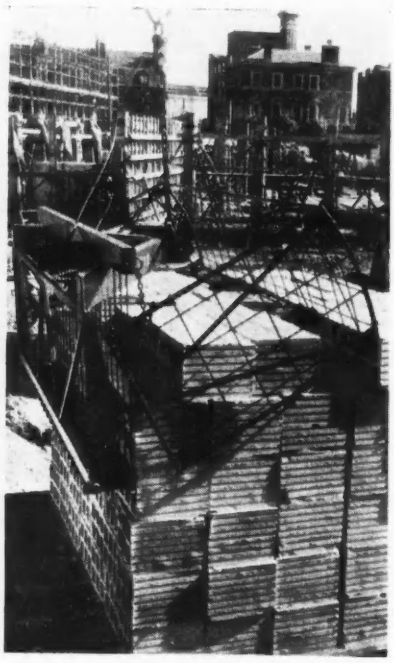


Fig. 3. Fork about to lift a stack of blocks from lorry

The times taken for unloading 1,000 6in. blocks and placing them on the building varied between 30 and 40 minutes, and for unloading 600 9in. blocks and stacking them on the ground, 25 minutes.

Except for the safety gate, which became distorted, the fork appeared to be sufficiently robust for site use. The design of the gate has since been revised and is stronger than that illustrated.

Trials have shown that the crane-fork is a more efficient device than the lifting cage for handling hollow flooring blocks both at the works and on the site.

Although two men were used at the site for placing a load and withdrawing the fork, further experience may show that one man is sufficient, thus reducing the unloading gang to four men, including the crane driver.

An application has been made for a provisional patent for the crane-fork, and experimental licences have been granted for its manufacture. Several crane-forks are now in use by contractors and the London Brick Co., Ltd., are using the large fork for loading vehicles at one of their works.

Information regarding the suppliers of these forks can be obtained from the Building Centre, 26 Store Street, Tottenham Court Road, London, W.C.1.

Acknowledgement

The investigations and development work described in this article form a part of the programme of research of the Building Research Board and the article appears by permission of the Director of Building Research.

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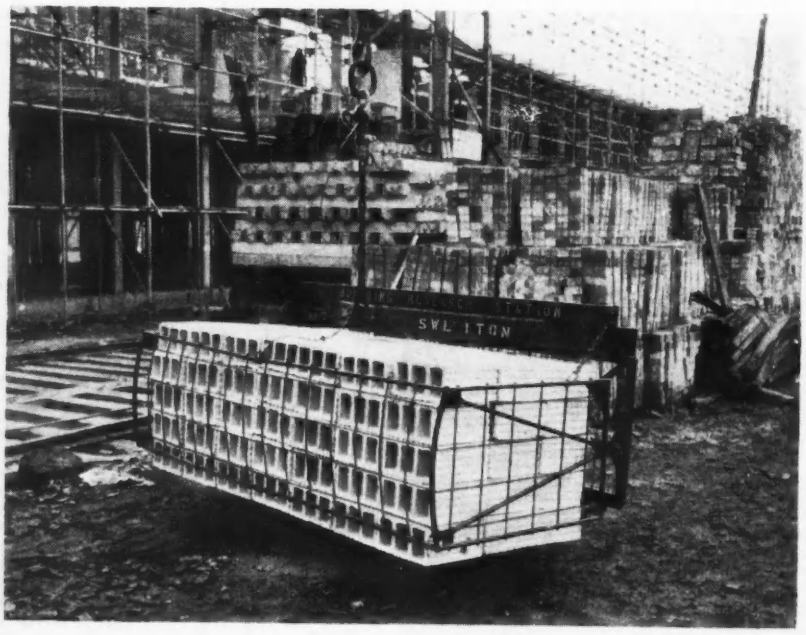


Fig. 4. Handling a stack of blocks

PROTECTING THE COASTLINE FROM EROSION

The answers to some frequently asked questions on coastal protection are provided by the Hydraulics Research Station at Wallingford in a booklet* for the guidance of engineers and coastal authorities. Originally submitted by the Advisory Committee on Sea Defence Research, the nine questions were framed after consultations with a number of engineers responsible for coastal works and they cover the points most often raised.

The aim of the booklet is to set out the most up-to-date information on coast protection, based on both the findings of research and experience in the field. It stresses the complexity of the problems in coastal engineering, resulting as they do from the combined effects of winds, waves, tides and tidal currents, and shows that they cannot be solved by calculation alone.

The nine questions are all strictly practical, and the answers are given in bold English free of scientific jargon.

*"*Coast Erosion and Defence*"—*Hydraulics Research Paper No. 3. Published for D.S.I.R. by H.M.S.O. Price 1s. 3d. (U.S.A. 24 cents); by post 1s. 5d.*

MEDWAY MOTOR ROAD

Minister Invites Tenders

As officially announced on page 569, the Minister of Transport is inviting tenders for one or more of the contracts for the construction of the 25-mile Medway Motor Road.

The motorway consists of dual 24ft. carriageways with 1ft. contrasting margins and 10ft. hard shoulders; alternative designs are provided for flexible or rigid pavement. Included in the work are 57 concrete bridges and seven interchanges.

Tenders are returnable by April 5, and the consulting engineers are Freeman, Fox and Partners, London, S.W.1.

C.M.P.E. FORM WESTERN BRANCH

The Contractors' Mechanical Plant Engineers are forming a Western branch covering initially the Bristol area. Membership is open to executives employed in connection with mechanical plant in the building and public works industries, including plant manufacture, hire and service. Further details may be obtained from Mr. J. D. Rodgers, Tudor Cottage, Battery Lane, Portishead, Somerset.

BRITAIN'S FIRST BOWLING ALLEY BUILDING

From Our Scottish Correspondent

THE Olympia Social and Recreational Centre, opened in the New Town of East Kilbride last month, is the first British building to be constructed purely for bowling alley purposes. Sponsors are Thomson Recreational Enterprises, Ltd., a company sponsored by Mr. Roy Thomson, chairman of Scottish Television, Ltd., and owner of *The Scotsman* and other papers. Cost of construction was £250,000.

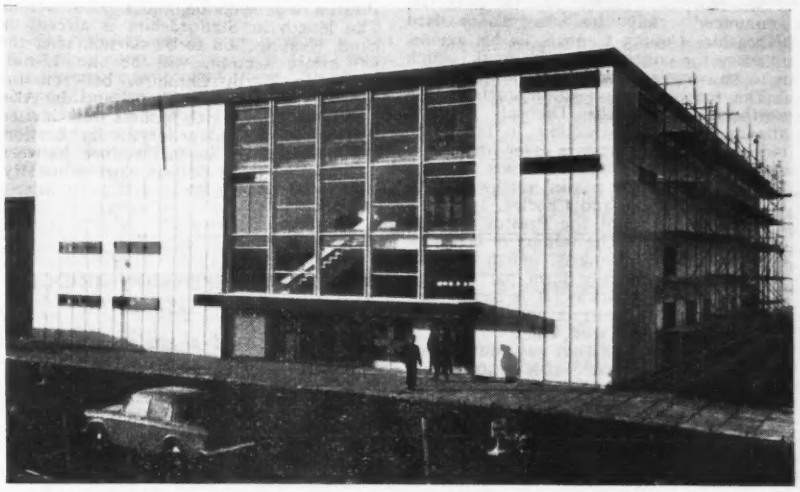
The origin of the building was a Scottish television programme covering the New Town when the lack of recreational facilities was indicated. Mr. Thomson and other leaders in the entertainment business in Scotland combined to launch this new development, and Mr. Thomson undertook the chairmanship.

From the constructional angle, interest lies in the actual layout, since this could well be the pattern of further development in Britain, and in the speedy erection of such a major building. James Laidlaw and Sons, Ltd., Clydesdale Works, Rutherglen, were entrusted with the contract on September 12, 1960. The building was completed in exactly 12 weeks and opened in time for Christmas and New Year holidays. As main contractors, Laidlaw were responsible for the daily co-ordination of operations, and in the latter stages, hourly co-ordination. Complete progress charts were prepared, linking the main construction with the various sub-contractors, all of whom functioned magnificently to achieve the final completion. Site meetings were held weekly, attended by executives from all the responsible firms, to assess progress and to determine further needs.

Traditional Construction

Located in the town centre area of the New Town, the Olympia Centre stands isolated at present. Ultimately, however, it will be built up on three sides, and this simplified design and construction to a considerable extent, since architectural aspects are limited to the frontage. Construction is on traditional lines, involving a steel frame, with column and beam construction, and with open lattice trusses over the first-floor ballroom, to permit housing of air-conditioning plant, lighting trunk-ways and other essentials of heating and ventilating equipment. The main external walls are of 11in. cavity brickwork. Wet construction was reduced to an absolute minimum and rapid hardening cement was used throughout. The only wet materials were the floor screeds, which were prepared with rapid hardeners, to enable thermoplastic tiles to be laid quickly.

Since speed was an essential aspect of construction, materials were selected for availability, as well as suitability, and no delays were experienced awaiting the arrival of constructional material. Equally important, there were no alterations in design, the finished building representing approximately 99 per cent. of the original planning.



The building nearing completion

Construction Problems

The problems involved included the lack of electricity on the site, extremely wet working conditions and the necessity of tremendously accurate craftsmanship in the vital sections of the construction. The town centre is already provided with mains electricity, but the new Olympia site, although only 100yd. distant, had no such supply. A fleet of generators was employed, working continuously to serve the trades utilising electrical power, as well as to provide lighting for extended hours of work. Normal working went on until 8 p.m. on most working days and, in the final stages, some of the trades were involved in 24-hour day operation.

The work was carried out during three of the wettest months for many years, and this handicapped activity to a considerable extent. In some cases, work which could have been completed in four hours involved four days. External wall construction, for instance, was hampered through the necessity to stop and proceed with internal cladding, returning thereafter to the next stage of external construction. Despite these conditions, however, good progress was made, and the maximum credit is due to all the contractors for this completion.

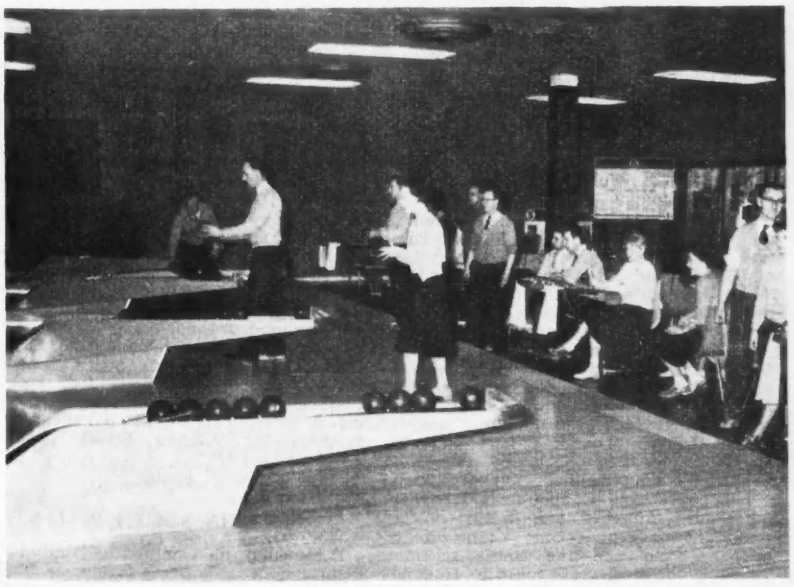
Accurate Finish

The other interesting point involved was the necessity to provide extremely accurate finish in certain areas. The bowling alleys, in particular, had to satisfy very accurate standards and, here, the 100ft. square of maple and Columbian redwood flooring was carried on a concrete base levelled to precise limits to take the built-up timber flooring of the bowling alley. This flooring was specially constructed from 4in. thick by 1in. wide maple, built up into fabricated sections 2ft. 5in. wide, then laid on edge, to give 1in.-thick maple running with the throw of the bowl, with Columbian redwood on either side of each alley. The result of this precision fabrication is an outstanding 16-lane alley, unique in this country.

Layout

Layout of the Olympia involves a central reception hall, laid in terrazzo, with a free-standing stairway on the left, carrying traffic to the upper ballroom floor. Cloakrooms and other essential units are included in this area, which leads through swing glass doors into the huge bowling alley. The first section is a terraced area, slightly higher than the main floor, housing the control section, a line of seating for spectators, a cafeteria section and toilets. There are eight double control desks, with semi-circular seating, serving the 16 lanes, each desk having push-button control for the sweeping and pin-setting mechanism. The control section is also equipped with push-button apparatus, allowing the

(Concluded on page 598)



Interior view

£14½M. BIRMINGHAM-PRESTON MOTORWAY CONTRACTS

McAlpine and Fairclough Win Lancs. Section

THE joint tenders of Sir Alfred McAlpine and Sons, Ltd., and Leonard Fairclough, Ltd., amounting to £14,614,969, have been accepted for building a further 26 miles of the Birmingham - Preston Motorway (M.6) between Warrington and Preston.

Mr. Marples, Minister of Transport, has announced that he has authorised Lancashire County Council, as his agents, to place the contracts for the work, which is to be completed within 28 months.

The route of this section starts at the northern end of the Thelwall Viaduct, already under construction to carry the motorway from Cheshire over the Manchester Ship Canal and the river Mersey. From this point, it passes northwards, to the west of Wigan and Chorley, and joins the southern end of the Preston By-pass at Bamber Bridge. The viaduct at Gathurst over the River Douglas, north-west of Wigan, will eventually form part of this section of the motorway. It is being built under a separate contract and work on it is already well advanced.

The motorway will have two 36ft. three-lane carriageways, each with a 10ft. wide hard shoulder and separated by a 15ft. wide central reserve. The construction of 72 bridges will be necessary, in addition to a railway bridge at North Ashton, which is being built by the British Transport Commission. There will be junctions with the existing road system at Woolston, Winwick, Haydock, South Ashton, North Ashton, Shevington Moor, Leyland and Bamber Bridge. At North Ashton, a short length of motorway forming a connection with the Winchester-Preston Trunk Road (A.49) near Wigan will be constructed under a separate contract.

The works have been designed for the Ministry of Transport by the agent authority Lancashire County Council, under the direction of the county surveyor, Mr. James Drake, B.Sc., M.I.C.E., M.I.Mun.E.

All the 78 miles of motorway between Dunston, north of Birmingham, and Preston will soon be under construction. The length in Staffordshire is already in hand. Next section to be started, after the Lancashire section, will be the 15-mile length in North Cheshire, between the A.54 route at Holmes Chapel and the A.56 at Thelwall, for which tenders were invited in December. Tenders for the last section, the 10 miles in South Cheshire between the A.54 and the Staffordshire boundary, will be invited shortly.

MERSEY SUSPENSION BRIDGE WOULD COST £27M.

Construction of a six-lane, three-span high-level Mersey suspension bridge—one of the longest in the world—is recommended by consulting engineers, Mott, Hay and Anderson, in a report which is to be considered by Merseyside authorities in the near future.

The bridge, designed to ease traffic congestion, would be situated between Liverpool, Upper Parliament Street, and Birkenhead, Victoria Park. It would have an overall length of 7,750ft., with a central span of 4,500ft. supported by two piers rising 620ft. Given an immediate start, the bridge could be completed by 1967 at an estimated cost of £27 million.

BUILDING COSTS IN 1961

National President Talks of "Some Misunderstanding"

SPEAKING at a meeting of building contractors in London on Tuesday, Mr. D. E. Woodbine Parish, president, National Federation of Building Trades Employers said he had spent much time recently attending annual general meetings of the Regional Federations and he was glad to say that, in the main, the recent wages settlement had been accepted as a statesmanlike solution of the problem in which many factors had to be taken into consideration.

"There has, however, been considerable debate on the extent of the ability of building firms to lessen the impact of the wage increases next October on building costs generally," he stated. "This is understandable in an industry made up of so many differing types of firm and which geographically differs so widely in customs and traditions. Indeed, extracts from statements made recently by the employers' leaders, sometimes contradicted by the operatives' leaders, have obviously resulted in some misunderstanding of a situation which, in any case, will remain somewhat obscure until October, when it will be possible to begin to measure the full implications of what has been described as a "packet deal" on hours and wages.

Imponderables

"The two obvious imponderables will be the rate of increasing productivity after October and the precise impact of the new refreshment break rule. Results are likely to vary in different parts of the country.

"As I have already said, builders are now being faced with increases in wages in some allied trades, increases in some material and transport costs, as well as the sliding scale wages increase of ½d. an hour and the higher National Insurance contributions.

"All this could lead to a rise in building costs in the neighbourhood of four per cent. during the year. But the industry is aware of its very considerable responsibility to the rest of the community in this matter, and will do all within its power to mitigate these increases."

£5½M. FLYOVER AT WHITE CITY

A recommendation that legislation should be promoted for the acquisition of land and works in connection with a £5½ million flyover at White City, London, W.12, is contained in the first report of the L.C.C.'s Roads Committee.

The six lane flyover and viaduct will be over Wood Lane and the railway lines at the White City end of Westway, with a new road to Holland Park Avenue forming part of the west cross route. This route will be at ground level along the eastern side of the West London railway, and will be joined to the viaduct by a flyover shaped like a jug handle.

The flyover and viaduct from Westway is intended primarily to form part of the complete Western Avenue extension to Harrow Road and the whole scheme, including the west cross route to Holland Park Avenue and the widening of Holland Park Avenue, may well cost around £23 million.

Late Construction News

£1.3M. GLASGOW HOUSING. — Glasgow City Council have accepted the tender of Holland & Hannen and Cubitts (Scotland), Ltd., for building 400 maisonnettes in 10 tower blocks of 19 storeys each on the site bounded by Cumberland Street, Rutherglen Road, Sandyfields Street and Commercial Road. The tender price was £1,310,535, which was £1,086 lower than the direct labour estimate.

HULL QUAY RECONSTRUCTION. — A £130,000 contract for the reconstruction of No. 11 quay at King George Dock, Hull, has been placed by the British Transport Commission with Humphreys, Ltd., Knightsbridge, London, S.W.1. The contract provides for the construction of a reinforced concrete quay, 600ft. long, to replace the existing 275ft. long timber quay.

SHOREDITCH DWELLINGS. — Subject to Ministry approval, Shoreditch B.C. are to place a £258,206 contract with Herbert Richardson and Sons, Ltd., Slade Green Road, Erith, Kent, for the erection of 105 dwellings in five blocks at Acton Estate.

HURN AIRPORT BUILDINGS.—T. G. Construction Co., Ltd., Wolverhampton, have been awarded a contract by the Air Ministry for an air traffic control school and experimental unit at Bournemouth Hurn Airport. Work is expected to start shortly and is scheduled for completion in 18 months.

CAMBERWELL HOUSING CONTRACT.—Camberwell B.C. propose to place a contract worth £455,830 with Wilson, Lovatt and Sons, Ltd., 16 Grosvenor Crescent, London, S.W.1. This will cover the erection of 117 dwellings and six shops at No. 18 Development Area, Mansion Street.

LAMBETH DEVELOPMENT. — The fixed-price tender submitted by A. T. Rowley (London), Ltd., Lordship Lane, London, N.17, at £170,712, the lowest of five received, has been accepted by Lambeth B.C. for the development of Rosendale Road Extension site by the erection of 60 dwellings.

HULL VIADUCT.—Work is to start shortly on the construction of a 1,320ft. long viaduct to carry the Hessle Road over the Hull and Selby railway line at Dairycoates, Hull. The City Council have accepted the £262,733 tender of Lomount Construction, Ltd., 40 Piccadilly, London, W.1.

ROSS WATER SCHEMES. — Contracts for two large water schemes have been placed by Ross and Cromarty C.C. The first, awarded to J. Mackay, Leith Hall, Bonar Bridge, is for a service reservoir and 14 miles of asbestos-cement pipes in the Andross area, and the other, placed with P. Munro (Alness), Ltd., Caplich, Alness, is for 6½ miles of pipes and a small loch intake and service reservoir at Laide, Gairloch.

KENNINGTON FLATS. — The Duchy of Cornwall have placed a £140,000 contract with Walter Llewellyn and Sons, Ltd., 79 Davies Street, London, W.1, for the erection of a block of 44 flats with 36 garages at Kennington Park Road, London, S.E.11. The architects are Louis de Soissons, Peacock, Hodges and Robertson, 3 Park Square Mews, London, N.W.1, and the quantity surveyors are Widnell and Trollope, Broadway Court, London, S.W.1.

NEW CLUB PREMISES.—Howard Farrow, Ltd., Highfield Road, London, N.W.11, have secured a £46,000 contract to erect new club premises for the Lion Boys' Club at 148-152 Pitfield Street, London, N.1. Plans are by Brett and Pollen, Watlington Park, Oxford, and the consulting engineers are Cyril Blumfield and Partners, 82 Victoria Street, London, S.W.1.

C.M.P.E. IN SOUTH WALES

A branch of the Contractors' Mechanical Plant Engineers is being formed in South Wales and an inaugural general meeting will be held at the Bear Hotel, Cowbridge, Cardiff, on Tuesday, February 14.

TENDERING IN COMPETITION

Southern Builders' Concern at Uneconomic Prices

"WITHIN the context of the high level of activity in the industry there are two matters which have caused special concern," states the annual report of the Southern Counties Federation of Building Trades Employers. "Firstly, and of prime importance, has been the continuing uneconomic level of tender prices submitted in open competition.

"The trend of tender prices calls into question to an increasing extent whether the unlimited competition which is still sought by most public authorities is consistent with the extremely skilled and technical exercise of producing a modern building with all its complexities. It is perhaps significant that more and more private individuals and concerns are looking to alternative means of achieving their objectives in a manner giving satisfaction to all parties.

"It has long been recognised that the production of a tender for building works, both large and small, is a highly skilled operation but it must in many cases be doubted whether proper allowances are being made, either for known or likely economic trends or for adequate provision for the needs of development, research, education and training. Tendering conditions which create a situation in which responsible organisations are unable to take proper account of these factors will continue to jeopardise seriously the future efficiency and prosperity of our industry.

Firm-price Tendering

"Secondly, and of hardly less importance, the Council has expressed increasing alarm at the continuance of the policy of firm-price tendering. Whilst it would be unrealistic to expect that this principle will be discarded by Government departments and local authorities, it is now evident that many building owners and their representatives are continuing to seek the protection which this system gives to them without accepting the responsibilities which have been clearly laid down by the Joint Consultative Committee. In part the remedy may be found to lie in our Federation and its members taking steps equally forceful with those taken in respect of other breaches of fair tendering conditions."

Gratifying Recruitment

The report, which was adopted at the annual general meeting held last Friday, has some encouraging news concerning apprenticeship training. "It is gratifying to be able to report that the number of new apprentices recruited this year is the largest for five years," states the report. "The figure is 1,470, an increase of 26 per cent. over last year's intake, making the present apprentice force in the region a total of 5,302. However, it must not be forgotten that this is 780 short of the annual objective of 2,250 calculated as the replacement need of the industry in the southern counties. With the 'bulge' almost upon us it should not be impossible to reach this figure.

"This, however, is dependent upon a substantial increase in the number of members training apprentices. There are still far too many members who are not playing their part in this campaign and special efforts are necessary to support the invaluable work being carried out by those members who rightly regard the recruitment and training of apprentices as an essential element within the development of their businesses. With this in mind the apprenticeship and education committee and the regional joint apprenticeship committee have throughout the year devoted their energies to ways of achieving this aim."

TEDDINGTON STUDIOS DEVELOPMENT

£300,000 Contract Signed

A £300,000 CONTRACT to develop the centre of Teddington Studios has been signed between ABC Television and W. H. Gaze and Sons, Ltd., Roehampton Village, London, S.W.15.

Both building and civil engineering work is involved.

The most spectacular part of the job, for which the architects are W. S. Hattrell and Partners, London, S.W.1, is building a new wedge-shaped block 80ft. high, 132ft. long and 100ft. wide, linking the two existing studio blocks.

On the ground floor of the new building, there is to be a reception area, an artists' green room, the scene master's office and scenes' crew room, together with a studio service area to allow easy movement of scenery in and out of the studios.

Technical Areas

The whole of the first floor of the new building is to be devoted to Technical Areas (i.e. Studio 1 control room suite, Studio 2 control room suite, master control, central apparatus room, telecine, standards conversion, video tape recording).

The two top floors will be devoted to rehearsal accommodation, including two rehearsal rooms of over 4,000 sq. ft. area. One of the smaller rehearsal rooms is to be acoustically treated as a band room, and the sound dubbing suite has been placed immediately adjacent to this so that the sound dubbing control room can also balance an orchestra for big musical productions.

In addition to this building operation, the contract provides for the construction of a new studio service road 16ft. wide, giving access from Broom Road round the east side of the studios to the car park between the studio building and the River Thames.

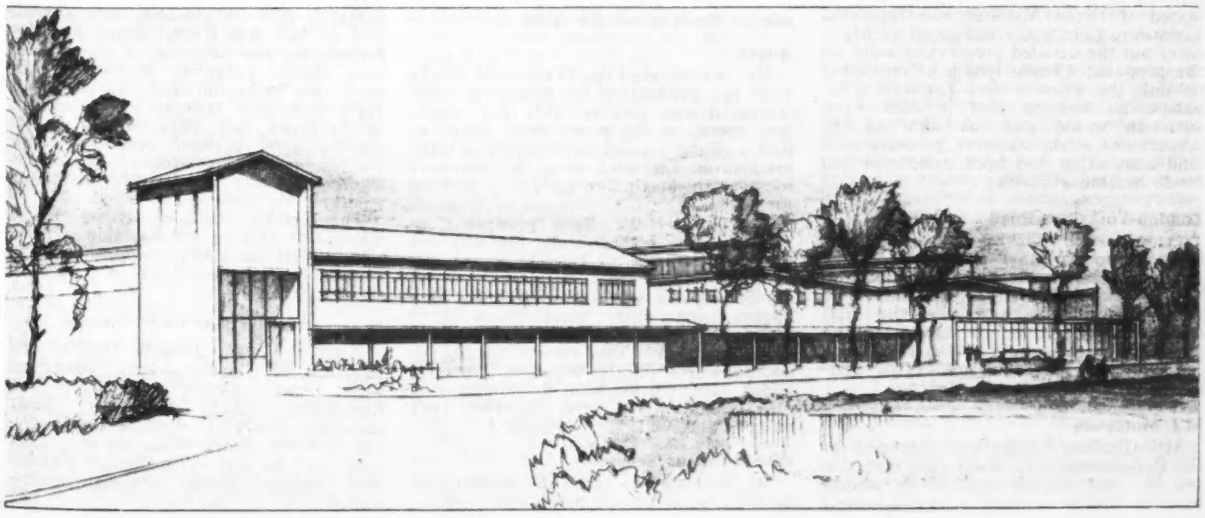
£1M. LOWESTOFT DEVELOPMENT INVOLVES LARGE EARTHMOVING OPERATION

ILLUSTRATED below is an artist's impression of the first contract which has just been let by Boulton and Paul, Ltd., of Norwich, in connection with the £1m. development of their new 42-acre site on the south side of the inner harbour at Lowestoft.

The main factory building will cover more than two acres, is modern in conception and includes a large open floor area with a minimum of internal supports and a low construction height. This development programme also includes a number of smaller buildings, a system of private roads, and a new quay 800ft. long which will allow the unloading of cargo without delay from ships into the works.

As part of the site is at present waterlogged and very uneven, a large earthmoving operation will have to be undertaken to provide a level area for the new factory. It is also hoped that this will help to prevent flooding by exceptionally high tides which affect much of the Suffolk coast from time to time.

The main contractors for the civil engineering and building works are J. L. Kier and Co., Ltd. The consulting engineers responsible for the design and layout of the project are Posford, Pavry and Partners of Westminster.



In Parliament

MORE BIG HOSPITAL SCHEMES ANNOUNCED BY HEALTH MINISTER

FOLLOWING his announcement on the expansion of the hospital building programme (*The Contract Journal*, January 26), the Minister of Health, Mr. Enoch Powell, stated in Parliament last week that he has selected 29 further major building schemes for starting by 1964-65.

The list contains new general hospitals at Basildon, Stevenage and Abergavenny, a long-stay geriatric hospital at Pontypridd, the first phase of a new hospital at Exeter and the second phase of the new Wythenshawe Hospital in Manchester.

Other large developments will be a new ward block at Hammersmith Hospital; substantial redevelopment of the Royal Victoria Infirmary, Newcastle; new casualty and out-patient departments at Burton-on-Trent; maternity departments at Copthorne Hospital, Shrewsbury and at the George Eliot Hospital, Nuneaton; a new radiotherapy centre in Bristol and the completion of the radiotherapy centre at Clatterbridge, Cheshire. Developments at St. Luke's Hospital, Huddersfield, will provide geriatric and psychiatric beds.

There will be modernisation and extension of the Royal Sussex County Hospital, Brighton, and the Kent and Canterbury Hospital, Canterbury, and the first phase of a reorganisation of the Portsmouth hospitals.

Further phases of development are authorised at the Victoria Hospital, Blackpool, Sharoe Green Hospital, Preston, the Royal Berkshire Hospital, Reading, High Wycombe Memorial Hospital and the Orsett branch of the Tilbury and Riverside General Hospital.

There are a number of large mental hospital schemes. These are, for sub-normal patients, a new hospital at Fulbourn, the completion of the Prudhoe and Monckton Hospital, and modernisation and extension of the Grenoside, Aughton Court, Thundercliffe Grange and Whittington Hall Hospitals in the Sheffield hospital region. A medium-stay psychiatric unit will be provided as part of the new Fazakerley Hospital, Liverpool.

In his statement, Mr. Powell said that these schemes, with those in previous announcements, completed the list of major schemes expected to be started by 1964-65. He intended to give specific starting-dates to all of them as soon as possible.

Motorway Link

The Parliamentary Secretary to the Ministry of Transport, Mr. John Hay, replying to a question from Mr. Berkeley, stated that the Minister had appointed Lancashire County Council as his agents to carry out the detailed preparatory work on the proposed 13-mile length of motorway to link the Preston and Lancashire Bypasses, all forming part of M.6. Construction would start as soon as the preparatory work, statutory processes and land acquisition had been completed and funds became available.

London-Yorkshire Road

Questioned by Sir B. Janner about the construction of the extension of the London-Yorkshire Motorway to Doncaster, Mr. Hay replied that it was hoped to publish during the next year the draft Orders for alterations to side roads and accesses for the whole route from Crick to Doncaster. He could not exactly forecast a date for starting construction.

M.1 Motorway

Mr. Gresham Cooke was informed by the Parliamentary Secretary that traffic on the M.1 had recently reached an average of over 15,000 vehicles a day. Journeys were speedier and safer, and the accident rate was half that of the best type of all other roads in the county. In terms of economic benefit to the nation, the indications were that the M.1 might well repay the cost of its construction within the next eight years.

When Mr. Gresham Cooke asked whether the Government had plans to press ahead with further motorway developments, Mr. Hay replied that another 100 miles of long-distance motorway was expected to be put in hand this year. During the next five or six years they hoped substantially to complete the five major projects and to make a start on the extension of the M.1 from Crick to Doncaster. The Minister was appointing Sir Owen Williams and Partners as consulting engineer to complete the preparation of this latter scheme.

M.1 Final Cost

Replying to Sir W. Robson, the Minister of Transport, Mr. Ernest Marples, in a written answer said that the actual final cost of the construction works on the M.1 would not be known until the settlement of accounts with the contractor was completed, but it was likely to be of the order of £21 million.

The costs incurred on modifications since the opening of the motorway to date totalled approximately £600,000. The major part of this total related to the widening and paving of the grassed hard shoulders which suffered considerable damage by heavy usage while they were still immature.

Financial liability as between the contractor and the Department for repairs executed during the maintenance period following completion of the works was determined under the contract, according to the circumstances which gave rise to the necessity for the repairs. The figure for the Department's liability in this respect was not yet available.

Mobile Cranes

Mr. Hay told several questioners that the Minister of Transport had received, and was considering, representations from organisations and bodies affected by the proposed regulations on long, wide and projecting loads and mobile cranes. He was arranging for discussions with those principally concerned before deciding finally what should be embodied in the regulations.

Swanley By-pass

Replying to Mr. S. Irving, the Parliamentary Secretary said that it was hoped to commence work next year on the by-pass at Swanley on the A.20.

Bricks

Mr. Dodds asked the Minister of Works how the production of bricks in 1960 compared with that in 1957; if he would give details of the action being taken to deal with the present shortcoming in brick production; and what were the prospects for 1961 in meeting an increasing demand for bricks.

Lord John Hope: Brick production in 1960 was the highest since the war and amounted to 7,284 million. The comparable figure for 1957 was 6,914 million. A number of new works have recently been opened and other brick-makers have increased, or plan to increase, their productive capacity. This should provide an additional 200 million bricks in 1961. He added that stocks held by brickmakers on December 31, were, in 1960, 161 millions and, in 1958, 349 millions.

Direct Labour Schemes

Mr. W. Hamilton asked the Secretary of State for Scotland how many local authorities operated direct labour schemes; and whether he would enumerate the controls exercised over them by his Department.

In a written answer, Mr. T. G. D. Galbraith, Joint Under Secretary of State, replied that he knew of nine local authorities which did a significant amount of capital work by direct labour, mainly schools, house-building, roads and water supply works. Many more had works departments or direct labour departments engaged on maintenance.

The Secretary of State's approval had to be obtained to proposals which involved Exchequer assistance and any estimate by a direct labour department submitted to him for approval was subjected to the same examination as a tender from a private contractor. Proposals to borrow for direct labour building and plant, like other applications by local authorities to borrow, also required consent.

MOTHERWELL CIVIC CENTRE COMPETITION

Motherwell and Wishaw B.C. are inviting United Kingdom architects to submit designs for a new civic centre, to include public halls, municipal offices, and shopping development.

The competition will be run in two stages, the six successful competitors in the first stage taking part in the second. Each of these six will receive £500, and the premium for the design placed first will be £1,000. The assessor is Mr. A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., A.M.T.P.I.

Applications for conditions should be made to the Town Clerk, Town Hall, Motherwell. The deposit is £1 1s.

AWE HYDRO PROJECT

Scottish Board Invite Tenders

The North of Scotland Hydro Electric Board are now inviting tenders (see page 571) for civil engineering works involved in the Cruachan section of the Awe Project. These include the construction of an underground power house, together with shafts, tunnels, etc.

The consulting engineers are James Williamson and Partners, of Glasgow.

(Concluded from page 595)

manager there or his staff to bring any one of the 16 alleys into operational use.

The pin-setting mechanism was shipped from Toronto, and supplied by the Double Diamond Bowling Supply Co., of Toronto. Each lane is served by a self-contained unit, which operates electrically, electronically and pneumatically. Scattered pins are collected by a sweep, controlled from the players' desk, and pins are gathered into an elevator, into a chute and so into five tracks, which feed five funnels for the resetting of pins for the next throw. Lighting is outstandingly good, the strip tubing being carried in three concealed troughs in the ceiling, which throw light effectively on to the playing area, without producing glare. Air-conditioning is effective and is designed to give comfortable conditions whatever the numbers involved.

The first-floor ballroom is designed to take 1,000 dancers and has side terraces, a band platform, a cafeteria terrace and an elevated office, reached by an open-tread spiral staircase.

Architects and Contractors

Architects were Boswell, Mitchell and Johnston, of Glasgow. Main contractors were James Laidlaw and Sons, Ltd., Rutherglen. Other contractors were: structural steelwork—Donald Clerk; precast concrete floors—Concrete (Scotland), Ltd.; roof decking—Wm. Briggs; plumber work—Robert Rome; terrazzo work—Toffollo Jackson and Co.

PREFABRICATED SCHOOL BUILT IN 12 DAYS AT TWICKENHAM

AT Twickenham in Middlesex, school buildings covering a floor area of 6,000 sq. ft. have been built and completed with all services and finishes in approximately 12 working days.

This was accomplished by Terrapin, Ltd., Fitzroy Street, London, W.1, using their own prefabricated method of building. They were called in by the Trustees of the Mall School, Hampton Road, soon after the school had been gutted by fire on the night of December 16/17. With the new term due to begin in mid-January the Trustees were faced with the possibility of the school going out of existence.

However, by December 20, Terrapin had presented an offer accompanied by preliminary drawings. These proposals were generally agreed at a meeting held immediately after Christmas, and on January 5 work started on foundations and drains on the site, as did production of the buildings in the company's factory at Bletchley, Bucks.

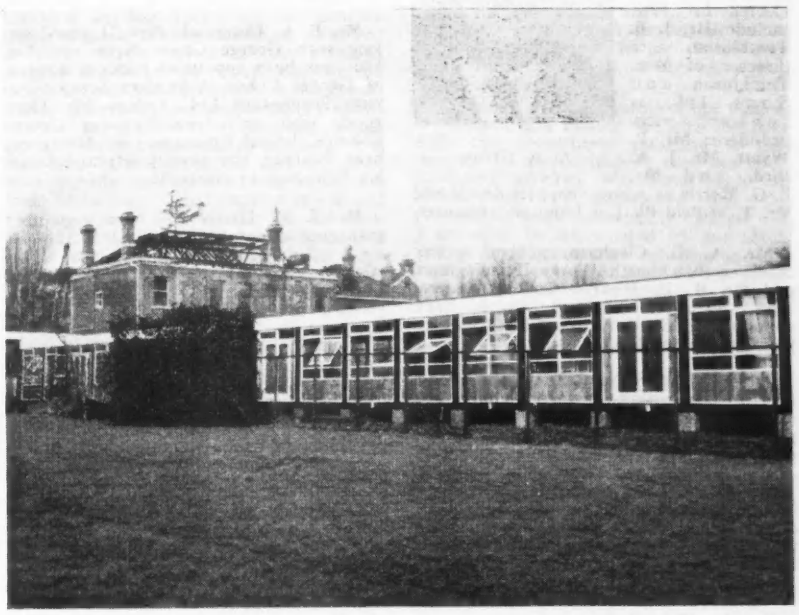
Delivery of the first buildings took place on the afternoon of January 12, and by the evening of January 17, the whole of the accommodation had been completed. This was provided in two blocks: an administrative block with headmaster's study, secretary's office, staff common room, sick room, kitchen, dining/assembly room, and toilets for male and female staff and boys; and a classroom block with seven classrooms, each of about 600 sq. ft. floor area, and necessary stores and cloakrooms.

By the Terrapin system a pack building, measuring 24ft. by 8ft. is provided, consisting of a floor, two side walls and a roof, all of which are entirely built, assembled and finished in the factory. The roof is weather-proofed, electric lighting points are ready wired, windows glazed and floor covering laid and bonded.

For transportation, each pack is designed to fold down flat and nest neatly with other packs. The packs are fitted with attachments for lifting by crane, and they may be placed side by side or end to end on simple footings to form large or small buildings. The gable end wall panels required to complete the ends of composite buildings and internal partitioning to subdivide buildings are transported in special crates designed to nest with the packs.

By this method 95 per cent. of the total cost of a standard building is represented by work done in the factory. The basic materials are Douglas Fir structural timber and resin-bonded plywood. At Twickenham the exterior facing is African Utilo face plywood.

The sub-contractors for the ground work were C.A.S. (Contractors), Ltd., St. James's House, Kensington Square, London, W.8. Mr. H. Clamp, 19 The Green, Richmond, Surrey, was the architect for the Trustees.



The new school with gutted building in background

NEW NORTH AND SOUTH APPROACH ROADS TO BELFAST

ECONOMIC developments in Northern Ireland in recent years have brought their problems, and one of the greatest of these is that of building roads which will be adequate not only for present needs but for those of the foreseeable future.

Hitherto, the roads of Northern Ireland have been sufficient for the traffic between town and town, but over the years it has been increasingly evident that new main highways, providing direct access from the principal outlying areas to the cities, are essential. It is to meet this necessity that the major road operations now under way in Northern Ireland have been designed.

The latest step is the taking of borings on the route of what is to be the main North Approach Road to Belfast which will result in the country's first underground road tunnel. This is intended to cut under the present main north road into the city as part of a new fast motorway which will take traffic quickly out of the city to link up with the area's second city, Londonderry, 80 miles away.

The first stage of the new road, which will be constructed as a motorway, starts some distance from the city centre and will run well beyond the city boundary. It will begin at a flyover junction over the main road running into the city along the line of Belfast Lough, with a three-span prestressed concrete bridge carrying the inward leg of the approach road over the shore road.

The road will then climb up the west side of the valley in which Belfast lies, rising to about 450ft. above sea level and will then fall gently to join a point on the present main Antrim Road about a mile outside the city.

The overall width of the road will be 100ft. with dual carriageways each 24ft. wide. Hard shoulders 12ft. wide will be provided on both side verges and the central reservation will be 15ft.

From the junction on the new road and the present Antrim Road a further motorway is to be built of about one mile, connecting with the Belfast-Larne trunk road. At the junction there will be a large diameter roundabout in which provision has been made for a flyover bridge which will carry the North Approach Road over at a later stage when it will be extended. The first stage connections will then become slip roads.

There will be no intermediate accesses on either the Approach Road or the Larne Road link, but there will be three bridges carrying minor roads over the Approach Road.

Three Bridges Completed

One of the difficulties of the project is at the point where the new road is to be taken under the present main road. This will be done in a bridge with a very large skew and the problems are magnified by the proximity of existing buildings which it is desired to preserve and by the configuration of the existing ground.

Three bridges—two-span, of prestressed and reinforced concrete—have already been completed.

The beginnings on the new North Approach Road follow the good progress which has been made on a South Approach Road into the city. This, Northern Ireland's first real motorway, is expected to be completed by the spring of 1962 and will provide a first-class highway into the city from the outlying areas of Counties Down and Tyrone. It will by-pass the intervening towns, but will provide slip roads allowing traffic to drain off easily.

This road will remove a great deal of the load from the main Belfast-Lisburn Road, one of the most heavily loaded in the United Kingdom.

BRITISH STANDARDS

Industrial rubber boots

Primarily at the request of Government departments, the British Standards Institution has published a new British Standard (B.S.3299:1960) for industrial rubber boots. It applies to rubber boots for general purposes and does not cover boots giving protection against electrical shock or boots having antistatic or conductive properties.

A companion document to B.S.1870, Part 2 (which covers safety boots, of similar construction, which have steel toecaps) the specification gives details of the materials to be used and methods of test, to ensure a satisfactory article. Boots said to comply with the standard must be marked B.S.3299:1960 and the B.S.I. Kitemark may also be used, under licence, once B.S.I. have satisfied themselves that the boots are indeed up to standard. Price 4s. 6d.

Copies of this British Standard may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1.

Men and Movements

THE new president of the Liverpool Regional Federation of Building Trades Employers, installed at the recent annual general meeting, is **Mr. A. A. Stott,** chairman and managing director of James Stott and Son, Ltd. Other officials elected for 1961 include **Mr. J. B. Tomkinson,** a director of Wm. Tomkinson and Sons, Ltd., as senior vice-president; **Mr. P. Wyatt, Mr. J. A. Bird,** and **Mr. E. G. Morris** as junior vice-presidents; and **Mr. T. Wilfrid Platt** as honorary treasurer.

A. A. STOTT

Mr. A. G. Cleghorn, general works manager, Blackheath Works, Birmingham, and **Mr. W. H. Wentworth Ping,** general sales manager, Sheffield, have been appointed special directors of Firth-Vickers Stainless Steels, Ltd.

A. P. I. Cotterell and Son, the London firm of consulting engineers, have announced that they have taken into partnership **Mr. W. Stuart Bennett,** B.Sc., A.M.I.C.E., hitherto their chief assistant.

Mr. R. U. Law, managing director of George Wimpey and Co., Ltd., will retire at the end of April. Mr. Law has served the company for 30 years. He has been a director for 23 years and managing director for 16 years.

Mr. F. Hobson, chief engineer, and **Mr. F. Preston,** production manager, have been appointed to the board of Goodwin Barsby and Co., Ltd. Both have been local directors since 1957 and are members of the company's management committee, on which they have each served a term as chairman.

Winget, Ltd., have announced the appointment of **Mr. Leonard F. Moore,** managing director of Moore's Plant, Ltd., and a member of the Winget board, as chairman of two subsidiary companies, Plant Engineering Services (Exeter), Ltd., and Winget Services, Ltd., Scotland.

L. F. MOORE

The Darlington Insulation Co., Ltd., have announced two new appointments to meet the needs of expansion. **Mr. S. Watson** has been appointed northern regional manager, responsible for supervising and co-ordinating the work of the company's branches in the north of England and in Scotland. **Mr. A. W. D. Pullar** has been appointed southern regional manager, with similar responsibilities for the company's branches in the midlands, south of England and Wales.

Mr. T. K. Singer has been appointed general sales manager of James Booth Aluminium, Ltd. He was formerly an executive with Kaiser Aluminium and Chemical Corporation, and has represented that company both in the U.S.A. and in this country. The appointment follows the resignation of **Mr. D. McL. Burnell.**

The George Cohen 600 Group have announced the appointment of **Mr. Ronald G. Hooker,** J.P., as deputy managing director of K. and L. Steelfounders and Engineers, Ltd. In 1951, Mr. Hooker joined the Brush group, and in the following year was appointed general works manager of J. and H. McLaren, Ltd.; in 1954 he joined the board of Brush Electrical Engineering Co., Ltd., as works director, being promoted to general manager in 1957.

Mr. B. A. Thurgood, after 31 years' service with George Cohen Sons and Co., Ltd., has been appointed resident director of George Cohen Australian Scrap Company Proprietary, Ltd., Sydney. Mr. Thurgood, who until recently was George Cohen's branch manager in Morriston, near Swansea, has already left to take up his new post in Australia.

Mr. J. M. Harris has been appointed managing director of Holland & Hannen and Cubitts (Great Britain), Ltd., the Cubitt group's operating company in the United Kingdom. Mr. Harris has been in charge of Cubitts' structural engineering department since 1947. He was appointed to the board of the operating company in 1958, and he is also a director of Holland & Hannen and Cubitts (Scotland), Ltd., and of Concrete Development Co., Ltd.

J. M. HARRIS

Additional directors have been appointed to the board of Chaseside Engineering Co., Ltd. They are **Mr. Douglas A. Findlay, Mr. John E. T. Watson** and **Mr. Derek R. Webster.** Mr. Findlay is the accountant of the company, and joined Chaseside in 1959. Mr. Watson has been general sales manager since 1959. Mr. Webster, who is works manager, has been with the company since 1948.

Mr. A. Elliot, A.M.I.Ex., export manager for Baird and Tatlock (London), Ltd., with whom he has served for 23 years, has now been appointed general sales manager of the associated company, W. B. Nicolson (Scientific Instruments), Ltd. **Mr. J. E. C. Bailey,** C.B.E., managing director of Baird and Tatlock (London), Ltd., Hopkin and Williams, Ltd., and W. B. Nicolson (Scientific Instruments), Ltd., is leaving the United Kingdom on February 5 for a tour of the companies' branches and agents in Africa.

Mr. James Winstanley, M.A., A.M.I.Loco.E., has been appointed general overseas manufacturing manager of F. Perkins, Ltd. He will be responsible to **Mr. K. E. Woollatt,** director of the overseas manufacturing division. Mr. Winstanley joins the Peterborough organisation from J. Stone and Co. (Deptford), Ltd., where he was asistant to the managing director and assistant manager of the contracts department.

J. WINSTANLEY

Shell-Mex and B.P., Ltd., have announced the appointment of **Mr. D. H. F. Joyce** as manager, supplies and distribution department, a new department which will be responsible for the transportation, storage and distribution of the company's products.

A director of Coseley Buildings, Ltd., **Mr. Ion Lane,** left from London Airport last week for a six months' tour of the Far East. He will visit Singapore, Malaya, North Borneo, Sarawak, Brunei, Viet-Nam, Thailand, Dutch New Guinea and the Philippine Islands.

I. LANE

British Railways (London Midland Region) have appointed **Mr. W. F. Beatty** assistant civil engineer, Euston. Mr. Beatty joined the former L.M.S. Railway, Northern Counties Committee in 1930 as engineering assistant. He became works maintenance assistant at Euston in 1950 and new works assistant in 1951; acting district engineer, Crewe, in 1953; district engineer, Crewe, in 1954; and new works officer, London, in 1959, the position he leaves for his new appointment.

Mr. L. Denison has joined the staff of the Castrol group. For his first assignment, he will be posted to the group's associate company in Brazil, Castrol (Lubrificantes) S.A., as technical consultant on industrial oils. Mr. Denison was previously chief service engineer, tooling division of Weatherly Oilgear, Ltd. He leaves for Brazil this month, and expects to be in that country for between three and five years.

Mr. D. J. C. Lingard has been appointed sales manager of Permanite, Ltd. Mr. Lingard has been a sales representative for Permanite in the London area for the past 10 years.

J. I. Case Co., Ltd., have announced the appointment of **Mr. Peter A. Lunt** as area representative for Yorkshire. Mr. Lunt has been for the last four years an area representative for Blackwood Hodge before taking up his new appointment with J. I. Case.

P. A. LUNT

Sir William McFadzean, president of the Federation of British Industries, will lead an F.B.I. delegation to Spain on February 12. The visit is in response to an invitation from the Consejo Economico Sindical Nacional, which sent a party of industrialists to the United Kingdom in April last year. Other members of the delegation include **Mr. J. L. Gormezano,** executive director of Hawker Siddeley Brush International, Ltd.; **Mr. W. H. G. Roach,** managing director of William Press and Son, Ltd.; **Mr. D. G. Stokes,** managing director Scammell Lorries, Ltd.; and **Mr. C. R. Wheeler,** president of British Iron and Steel Federation.

Sir John Wrightson, chairman of Head Wrightson and Co., Ltd., left recently by air for India. During his stay he will visit the Durgapur Steelworks, and will call upon some of the principal customers in

(Concluded on page 604)

BROKEN DELIVERY PROMISES

F.B.I. President's Appeal to Exporters

SIR WILLIAM McFADZEAN, president of the F.B.I., speaking about the export drive at a meeting of the F.B.I. Midland Regional Council last week, made an appeal to chairmen and managing directors, and indeed everyone concerned throughout the country, to play their full part in ensuring adherence to delivery promises. He said:—

"There is one aspect of the export drive which is giving us serious concern. There has been a growing number of reports in recent months of broken delivery promises, i.e., failure to complete a contract on time or to supply goods ordered by an overseas customer by the promised delivery date. This is not, I know, a new problem, and admittedly we are not the only country falling down in this respect. One hears many similar complaints of broken delivery promises by other countries. But the failures of others can never be an excuse for ourselves. I prefer to regard them as opportunities of which we should take full advantage.

"There are, of course, many British companies which have an enviable reputation for getting jobs done and the goods delivered not only on time but often in advance of the promised date. This is as it should be, but the trouble is that those companies which fall down on the job do harm not only to themselves but also to all other British exporters. Unfortunately a reputation for late deliveries spreads far more quickly and widely overseas than a reputation for contracts ably fulfilled to the letter.

"The damage to our export drive caused by late deliveries needs no elaboration. If the product in question is, for example, a piece of machinery for a new factory overseas, its failure to arrive in time will hold up the start of production. If the products are in the consumer goods fields and are wanted for, say, the Christmas shopping period and arrive too late, then their value to the overseas purchaser is largely lost. In almost every case, our failure to supply on time will have cost our customer money and he will not look favourably on purchasing British goods again.

Many Causes

"The causes of late deliveries are many and varied. Strikes and labour disputes, as we all know, can make punctual delivery impossible and do immense damage. Transport delays, or delays in handling at the docks, are yet another frequent cause of late deliveries. But the point I wish to stress is that although some of the causes are beyond our control, industry itself also carries a heavy responsibility. Moreover, our responsibility is not limited to that of the company which actually exports the finished product. It is also that of his suppliers and all those who provide services for industry in one form or another. The failure of any one of his suppliers, whether it be of raw materials, of components, or even of one single unit out of the hundreds or thousands which may go to make up a finished product can cause an exporter to fall down on his job.

"Anything, in fact, which upset the flow from one company to another will almost certainly affect the delivery of the end product. The trouble may arise under several heads as, for example, lack of liaison between production and sales staff resulting in an order being accepted for delivery within an unreasonable time schedule; or pressure from one quarter or another to promise the impossible.

Warning the Customer

"But apart from making every endeavour to adhere to delivery dates, there is another thing we can and should always do. That is, whenever late delivery for any reason becomes inevitable, we should warn the customer and give him as full an explanation as possible of the reasons for the delay.

"All of us in industry are involved in this problem. It is emphatically not a matter for Government but one which industry must tackle for itself. It is not for me to suggest how individual companies should do this. But surely what is needed is a strong lead from the top. In full agreement with the Presidents of the Association of British Chambers of Commerce and the National Union of Manufacturers, we are therefore appealing to the chairmen and managing directors of every firm in this country which is concerned in any way with export, whether directly or indirectly, to make it their personal business to see that their company's performance on deliveries should not be open to reproach. Only in this way can standards be raised right down the line, so that managers, staff and employees at all levels, including those on the shop floor, are made aware that to fall down on delivery is not only letting down their company but also their country in its vital export drive.

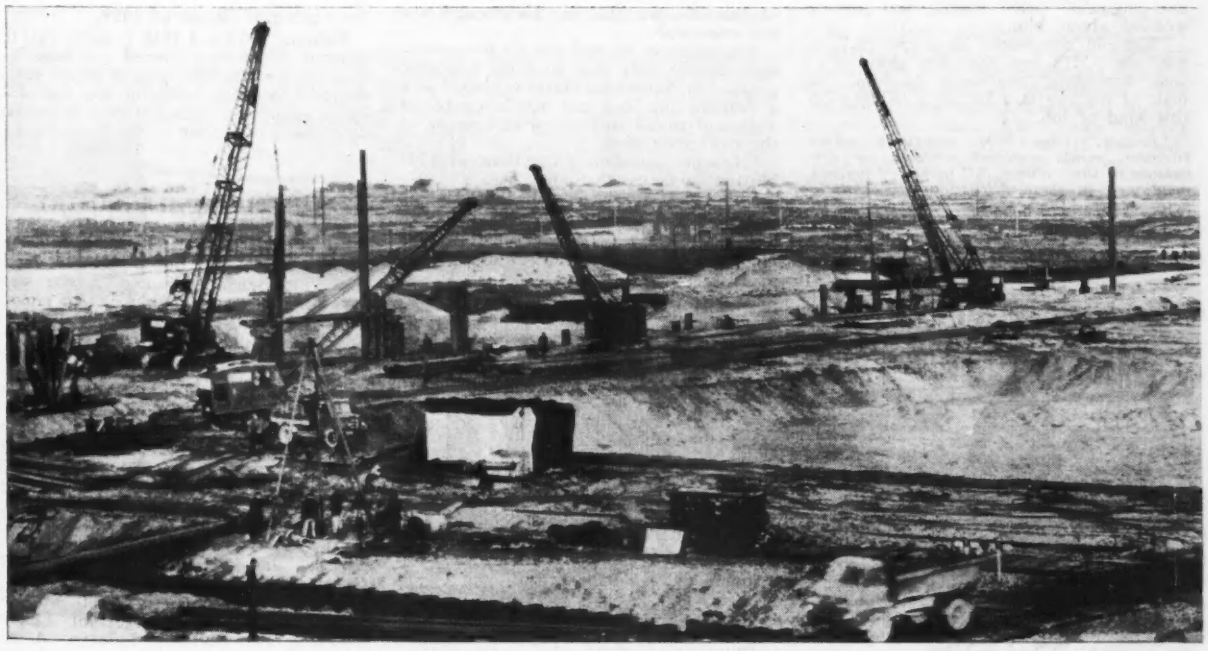
"Some people may question the wisdom of bringing this matter out into the open with the consequent publicity it may receive. I feel confident that the overwhelming majority will agree with our action, for the knowledge that this problem is being realistically tackled will, I am sure, be appreciated by our actual and potential customers overseas as yet a further positive sign of Britain's determination to capture and maintain our proper share of world trade."

WANDLE VALLEY SEWERAGE EXTENSIONS

The Wandle Valley Joint Sewerage Board have received from the Ministry of Housing approval in principle to further capital works estimated to cost £243,100. Together with other extensions now in hand these latest works bring the total cost of extensions since the end of the war to £1 million.

Tenders for these latest works are to be invited in March with an intended starting date about June, the scheme to be completed in about two years. A contract for equipment has already been let to Progress Engineers, Ltd., Stoke-on-Trent.

Mr. W. B. Wignall, B.Sc., A.M.I.C.E., M.I.Mun.E., is the engineer to the Board.



A general view of preliminary work in progress on the nuclear power station site at Dungeness in Kent. Shown, among other equipment, are two NCK-Rapier 605 cranes with 70ft. booms driving sheet metal piles with diesel hammers. The work is being done by Sir Robert McAlpine and Sons, Ltd., one of the members of The Nuclear Power Group, who are constructing the station

Talking of Safety

by "DRAGEE"

IT is often said that a person is as old as he or she feels. In China they say—more tersely—"it's later than you think." Either way, the idea is the same: one should never admit to being overtaken by the flying years.

I recently heard of a veteran site clerk who had just been pensioned off after forty-five years of service in one firm. After the farewell presentation he was invited to make a little speech. Shaking his head regretfully he said: "If I'd known this was going to be a temporary job I'd never have taken it on."

True or not, that little tale expresses the feelings of so many of our worthy souls at the end of their career. Not only the people in comfortable, steady jobs, but also the humbler folk who have known too many ups-and-downs, and are always surprised to find that their will to work has outlasted their strength. What can we do about these people? Obviously, there is no general solution; every case must be dealt with on its own merits.

There are many useful jobs on the site which can be performed with safety by persons who are no longer physically capable of coping with their former duties, and these would include such occupations as storekeeper, timekeeper, maintenance worker, night watchman, first-aid attendant, look-out man, messroom attendant, and so on. Jobs of this type, which are usually reserved by employers for their statutory quota of disabled persons, almost invariably involve some adjustment in remuneration, but a considerate management will often find an opportunity to retain the services of the older worker who is willing to adapt himself to new conditions.

On one of our constructional sites we had an elderly and experienced erector named Harry Carr. Nobody knew how old he was—the records indicated that he was sixty-four—but from other sources we came to learn that he was over seventy. He was muscular, sure-footed, and as tough as old leather, but during the last few years he had grown very deaf. He resolutely refused to wear a deaf-aid. The site engineer, Leslie Simms, was getting worried about him.

"The old boy works hard enough," he told me. "It's just that I'm afraid of—well—something happening to him. A man of his age is a bit of a liability on this kind of job."

"I agree that his deafness is a drawback," I said, "but is there anything else that you know of?"

"Not really. He gets about all right and of course he knows the ropes. It's just a question of whether we're doing the right thing letting him go up aloft. If he had a fall we'd only have ourselves to blame."

"What's the alternative?"

Simms shrugged. "Nothing that he will tolerate."

"How long is the job going to last?"

"That's the trouble. We've got months of work—and possibly more to follow. The old boy has been with us for a good many years—this is his home town and we've always had work for him. He won't travel, so there's nothing for it but to pay him off."

"Have you spoken to him about it?"

"Yes. He knew what was coming before I opened my mouth, and I'm afraid it wasn't a very profitable conversation. In the end I told him to carry on for the time being. Dave Watkins—his foreman—won't hear a thing against him, so there's no support in that direction. Tell me—what is our legal duty with an old chap like that?"

"In my opinion we would be doing wrong to employ any man who could not perform his work safely. If we have any reason to be in doubt about a person's fitness for the job, we should either let him go or obtain medical advice—and we can only do that with the consent of the party in question. Have you considered asking Harry to have a check-up?"

"No, but I don't think he'd do it."

"Then there doesn't appear to be any other way out."

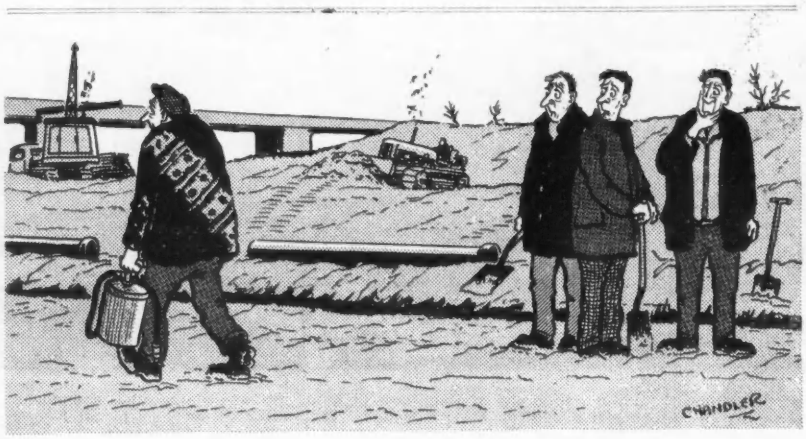
Simms tackled Harry just before the morning tea break, and rather to our surprise he agreed to the suggestion quite readily. He also promised to produce the report.

I was in my office a week or two later when a copy of the report arrived on my desk. It confirmed Simms' anxiety about Harry, and made it clear that he was not to do any more climbing. However (the report added), there was no reason why he should not continue to lead an active out-of-door life, provided that his strength was not overtaxed.

The solution turned out to be surprisingly simple. By dint of some energetic persuasion, Simms got Harry equipped with a deaf-aid and then put him in charge of a ground squad working with a crane in the new stock yard.

"He's become slightly psychotic with his hearing apparatus," Simms wrote. "He pretends he can hear somebody singing 'Abide with me' in his ear-piece. Do you think it's merely his idea of a joke? . . ."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.



MORE PRIVATE HOUSE BUILDING IN 1961

PRIVATE firms who are building houses for sale on their own initiative expect to start work on 131,000 new houses during 1961, according to figures compiled by the Ministry of Works.

If this total is reached it will be 15,000 more than the number which the Ministry estimates were started by these firms in 1960, and 31,000 more that the number started in 1959.

These figures have been compiled as the result of inquiries by the Ministry of Works in April and November last year and represent the first forecast to be made of the future level of private house building.

The figures are based on replies received from a selection of firms known to be undertaking private house building on their own initiative on sites owned or leased by them.

When the first inquiry was made in April last year, it was estimated that these private builders had started 100,000 houses in 1959 out of the 160,000 started for private developers, and that they expected to start 122,000 in 1960.

A second inquiry in November showed that the number of houses actually started in 1960 was likely to fall short of expectations by about 6,000, or 5 per cent. The main reasons given for this were that sites had not become available as soon as expected; some firms had been busy with other work; and a few had been held up by shortages of materials.

Situation May Be Different

It is too early to say whether the estimate of 131,000 new houses to be started in 1961 is likely to be realised, in view of the experience of the forecasts for 1960. The difficulties in starting houses certainly increased during 1960; in 1961 the situation may be different. The recent reduction in Bank Rate may enable building societies to advance mortgages on a larger number of houses. On the other hand, the builders may still be optimistic and their forecasts may again be on the high side.

The total number of private houses started in the first eleven months of 1960—houses built for sale and houses ordered by clients—was 169,000. This was 11,000 more than the number started in the corresponding period of 1959.

Between 1959 and 1960 it seems that the number of houses started on behalf of building owners who placed direct orders dropped by about 5,000, but this was offset by the additional houses started by builders developing their own sites.

THE BUILDING INDUSTRY APPEAL

On January 17, the building industry took the second of two recent steps forward in its active campaign to provide funds for improving the conditions of life for young people in the U.K. by the provision of recreation facilities. It established the Building Industry Youth Trust as a charity under the Charity Act, 1960. This Trust will direct the appeal and control the funds raised.

The trustees are: C. H. Walker (chairman); J. W. Alexander, M.I.C.E.; N. M. B. Hannen, F.I.O.B.; G. A. Hill, O.B.E.; W. L. Marchant; D. P. Marshall, F.R.I.B.A.; R. E. McAlpine; Lt.-Col. A. C. Newman; F. E. Griffiths (hon. treasurer); C. D. Spragg, and S. Hearder (joint hon. secretaries).

Earlier, on December 1, 1960, with the aim of reaching a target of £25,000 annually, the Building Industry Appeal appointed Major-General G. S. Hatton as full-time appeal organiser, with an office at 26 Bedford Square, London, W.C.1.

GRADUATED PENSION SCHEME

Contributions to be Collected From April Next

THE National Insurance graduated pension scheme comes into operation at the beginning of April when employees not contracted out of the scheme and whose earnings exceed £9 a week will start to pay graduated contributions for retirement pensions related to their earnings. Graduated contributions, to be collected through the Inland Revenue P.A.Y.E. system, will be paid in addition to flat rate contributions, which will continue to be paid as at present—usually by stamping a national insurance card.

The employee's share of the flat rate contribution for those not contracted out will be practically the same as at present; it will be 9s. 9d. (8s. for women), making a total contribution, including the employer's share, of 18s. 2d. (15s. 2d. for women). This flat rate contribution counts for all flat-rate national insurance benefits. From the first week in April the flat rate retirement pension, widow's pension and sickness and unemployment benefits will be increased from 50s. to 57s. 6d. a week (from 80s. to 92s. 6d. a week for a married couple).

The graduated part of the scheme applies to all employees who come within the ordinary P.A.Y.E. income tax arrangements (whether or not they actually pay tax). It will not apply to "self-employed" and "non-employed" people, to employees under 18, or to those drawing their retirement pension.

A graduated contribution in addition to the flat rate contribution will be paid in any tax week where gross pay for income tax purposes exceeds £9. The employee will pay approximately 4¼ per cent. of that part of his pay between £9 and £15. This graduated contribution will range from a penny a week for those earning just over £9, to 5s. 1d. a week on earnings of £15 or more. The employer pays exactly the same amount as the employee.

Details of the amount of graduated contributions paid by each employee will be entered by the employer on the P.A.Y.E. deduction cards and these particulars will be recorded in the employee's personal account at the Ministry's Central Record Office at Newcastle upon Tyne.

The graduated contributions paid by the employee will accumulate into units of £7 10s. for men and £9 for women, each unit buying sixpence a week of graduated retirement pension. (The higher unit for women is mainly because of their earlier pension age.) Any outstanding contributions amounting to half a unit or more will be rounded up to provide an extra 6d. a week of pension. A widow will get one half of any graduated pension her husband had earned when he died added to her retirement pension.

Employed married women and widows will still be able, as at present, to choose whether or not to pay the flat rate contribution. But, unless they are contracted out, they will have to pay a graduated contribution in any week in which their pay exceeds £9. They will receive graduated pension based on the number of £9 graduated contribution units paid, in addition to any other pension they become entitled to on their own or their husband's insurance.

Employees Contracted Out

Employees who have retirement pension rights in an occupational scheme which satisfies certain conditions can be contracted out of the graduated part of the National Insurance scheme. Those employees who are to be contracted out will be told by their employers. Up to date 1,900,000 men and 400,000 women—a total of 2,300,000—have been contracted out.

At the beginning of April the weekly contribution rates for employees contracted out will be 11s. 4d. (8s. 10d. for women), and the total including the employer's share 21s. (16s. 5d. for women). These contributions count for all flat-rate national insurance benefits, including the flat-rate retirement pension at the higher rates payable from April.

Free leaflets explaining the graduated pension scheme can be obtained from any local Pensions and National Insurance Office.

An architect's model of the University of Birmingham biology building which, as reported in last week's issue, is to be erected by John Laing Construction, Ltd. The building will cost about £1½ million and is scheduled for completion by June, 1963. Playne and Lacey are the architects, and Ove Arup and Partners the consulting engineers

COUNCIL HOUSES FOR SALE

Luton Builders' Concern

LUTON and Dunstable Association of Building Trades Employers have expressed concern with regard to advertisements inviting applications for houses at Gooseberry Hill which Luton Corporation are building for sale. The N.F.B.T.E. were opposed in principle to the entry of the Corporation or any other local authority into this field of house building, the Association have informed the Council. The preferential position of local authorities with regard to land and loans in particular places the house-building industry at a considerable disadvantage.

The Corporation are informing the Association that, having regard to the number of applications being received for the purchase of the houses being built, they are of the opinion that there is need for this type of development which it would appear cannot at the present time be satisfied by local builders who, in any event, had the opportunity of tendering for the erection of the houses. The Council will, however, give further consideration to this matter on receipt from the Association of specific reasons for their opposition to the Council's scheme.

SOUTHWARK MULTI-STOREY FLATS APPEAL

A planning appeal by the Corporation of Trinity House and Wates Built Homes, Ltd., has been made to the Ministry of Housing and Local Government in connection with a site at 33-67 Harper Road, London, S.E.1, where it was originally proposed to erect a 10-storey block of 40 flats and a three-storey block of 30 dwellings as a private development.

Initially the developers made an objection to an amendment in the London County plan which re-scheduled the site as an open space and park. With the present appeal, the developers have amended their own proposals to minimise the points of contention, and the scheme now provides for two 10-storey blocks containing 74 flats and 33 garages, with a maximum of open space around the dwellings.

RUGBY PORTLAND CEMENT OUTPUT RECORD

Sir Halford Reddish, chairman and managing director of Rugby Portland Cement Co., Ltd., has announced that the group's deliveries of cement in 1960 reached a new record. Deliveries by the company in the U.K. home market exceeded those of 1959 by 15 per cent. (This compares with a rise of 6 per cent. for the whole industry.)

Obituary

It is with regret that *The Contract Journal* records the death of the following:

Mr. Frederick Robert Hiorns, F.S.A., F.R.I.B.A., former architect to the L.C.C. and superintending architect of Metropolitan Buildings, 1939-41. He was 84. His work for the L.C.C. included the South-east London Technical Institute, the Weights and Measures Office, Euston Road, and numerous hospital units and housing schemes. He was also architect for the extension of County Hall east of the original building. Mr. Hiorns served on several R.I.B.A. committees and was the author of many essays and papers on architecture and art criticism. A Godwin Bursar and Travelling Student R.I.B.A., he was elected a Fellow in 1921.

Mr. G. N. Dean, aged 57, plant hire manager of Chamberlain Plant, Ltd., Enfield, Middlesex.

FOR THE DIARY

Feb. 3

Annual dinner of the Building and Civil Engineering Contractors' Section of the Birmingham and District Industrial Safety Group, Midland Hotel, Birmingham.

Meeting of the Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.1, 5.30 p.m. "Lessons Learned on the Design, Construction and Maintenance of Motorways—(III) From the Contractor's Angle", by W. Kirby Laing.

Meeting of the Building Surveyors' Institute at the Pharmacy Lecture Theatre, Welsh College of Advanced Technology (New Building), Cathays Park, Cardiff. Film show: "Motorway," "Concrete for Roads," "Raising the Roof," and "Spelga Dam."

Feb. 6

Meeting of the Society of Engineers at Geological Society, Burlington House, London. Presidential Address by Mr. W. E. Humphrey, F.S.E.

Feb. 7

Annual dinner of the National Federation of Building Trades Employers, Grosvenor House, London.

"Heating the Home" Exhibition, sponsored by the Eastern, North Thames, South Eastern and Southern Gas Boards, at Royal Horticultural Hall, London, Feb. 7-18.

Feb. 8

Annual general meeting of the National Federation of Building Trades Employers, R.I.B.A., London.

Meeting of the Royal Society of Arts, John Adam Street, London, W.C.2, at 2.30 p.m. Paper "The Timber Industry" by Rodney Perry, chairman, Timber Development Association.

Meeting of the Glasgow branch of the Contractors' Mechanical Plant Engineers, More's Hotel, India Street, Glasgow. Lecture "Grabs and Dredgers" by Mr. G. B. Oliver of Priestman Brothers, Ltd.

Feb. 9

Meeting of the Institution of Structural Engineers, 11 Upper Belgrave Street, London, S.W.1, 6 p.m. "Aluminium Strut Design", by J. B. Dwight.

Meeting of the Institute of Builders Discussion Club (Birmingham Centre) at the Grand Hotel, Birmingham, 7 p.m. "The R.I.B.A. Form of Contract" by Howard A. Close, M.A.

Feb. 10

One-day conference on "The Electronic Computer and its use in the Building Industry," Crawley College of Further Education, Crawley, Sussex.

Feb. 14

Annual dinner of the Institute of Builders, Guildhall, City of London.

Feb. 15

Meeting of the Reinforced Concrete Association at 11 Upper Belgrave Street, London, S.W.1, 6 p.m. "Hyperbolic Paraboloids", by J. D. Bennett, with contributions from H. Gorst, Mrs. C. Hume and H. S. Scorer.

Feb. 17

Annual dinner of the Institution of Plant Engineers, Connaught Rooms, London.

Feb. 20

Meeting of the Faculty of Building (County of London Branch) at the Building Centre, W.C.1, 7 p.m. A film show on building and civil engineering overseas.

Feb. 21

Top-level management conference organised by the Northern Counties Regional Federation of Building Trades Employers in conjunction with B.A.S., Durham, Feb. 21-22.

Feb. 22

Federation of Master Builders London Region lunch for housebuilder members, Grosvenor House, London, 1 p.m.

Feb. 23

Meeting of the Institute of Sewage Purification (Metropolitan and Southern Branch) at Friends House (Rooms 7 and 8), Euston Road, London, N.W.1, 6.30 p.m. "Sludge Treatment at Luton", by S. C. Evans.

Meeting of the Nottingham branch of the Contractors' Mechanical Plant Engineers, Flying Horse Hotel, Nottingham, 7.30 p.m.

Feb. 25

Annual dinner of the Faculty of Building at the Hyde Park Hotel, London, S.W.1.

Feb. 27

Meeting of the Hants and Sussex branch of the Contractors' Mechanical Plant Engineers, Black Dog Inn, Emsworth, 7.30 p.m. Talk on "Insurance and Safety Regulations."

Annual general meeting and luncheon of the Midland Federation of Building Trades Employers, Midland Hotel, Birmingham.

March 1

Meeting of the Manchester and District branch of the Contractors' Mechanical Plant Engineers, Nags Head Hotel, Jacksons Row, Manchester, 2. 7.30 p.m. Film on underwater construction, demolition and recovery.

March 2

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, London, N.W.4. 7.30 p.m. Film Show.

March 3

Meeting of the Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.1, 5.30 p.m. "Lessons Learned on the Design, Construction and Maintenance of Motorways—(IV) From the Ministry of Transport Angle", by a representative of the Ministry.

March 4

Annual dinner of the Institute of Builders Discussion Club at the Tavistock Banqueting Rooms, 18 Charing Cross Road, London, W.C.2, 6.30 p.m.

March 6

Meeting of the Society of Engineers at the Geographical Society, Burlington House, London, W., 5.30 p.m. "Some Aspects of Prestressed Concrete", by H. Kaylor.

March 7

Annual dinner of the Royal Institution of Chartered Surveyors, Grosvenor House, London.

Annual general meeting and luncheon of the Federation of Building Block Manufacturers, Piccadilly Hotel, London.

(Concluded from page 600)

Calcutta, Jamshedpur, Burnpur, New Delhi and Bombay. He will also be present when the new company, Head Wrightson India, Ltd., officially commence operations in Calcutta.

Sir Herbert Humphries and McDonald, consulting engineers, of Birmingham, have announced that they have taken into partnership **Mr. Dennis G. Hall,** A.M.I.C.E., hitherto chief engineer to the **firm.**

Newly appointed to the board of Lewis Berger (Great Britain), Ltd., are **Mr. K. Reiser,** technical and economic planning officer, **Mr. F. R. Creed,** general works manager, and **Mr. W. G. Green,** secretary and director of Keystone Paint and Varnish Co., Ltd.

Mr. Richard Wyatt, sales manager of Tunny Cranes, Ltd., has been appointed sales director.

Mr. R. H. Hazlehurst has been appointed midlands area representative of Lumenated Ceilings, Ltd. Until permanent office accommodation is available he will operate from the Birmingham Engineering and Exchange Centre.

Mr. Geoffrey F. Cutting has taken up the post of director of the Association of Heating, Ventilating and Domestic Engineering Employers. Mr. Cutting was formerly secretary economic and public relations affairs, of the Federation of Civil Engineering Contractors. His public relations duties will be taken over by **Mr. C. L. Dodd,** who will become the Federation's press officer. Mr. Dodd, at present the press officer of the Cementation Co., Ltd., takes up his new post in March.

Mr. P. Russell Walker, T.D., F.R.I.B.A., F.I.A.A., A.A.Dipl., F.I.Arb., F.R.S.A., has been elected president of The Incorporated Association of Architects and Surveyors for the coming year in succession to **Councillor W. J. Clark,** F.I.A.S., F.R.S.A., M.R.S.H. In private practice since 1946, Mr. Russell Walker is now principal in the firm of Russell Walker and Associates, Colchester. The Council also elected **Mr. S. R. Nevell,** V.P.I.A.A.S., F.R.S.A., to be senior vice-president and president-elect. **Mr. L. W. Clark,** F.I.A.S., was elected chairman of Council, and **Mr. R. M. Silber,** F.I.A.S., A.M.I.Struct.E., vice-chairman of Council. **Mr. A. C. Williamson** was re-elected honorary secretary and **Mr. S. R. Nevell** was re-elected honorary treasurer.

Mr. Colin Miller, who has been with Thomas Smith and Sons (Rodley), Ltd., since 1952, is leaving the firm in February to join the sales staff of Clyde Engineering Co., Ltd., of Wellington, who are the agents for Smith cranes and excavators in New Zealand.

Three new appointments have been announced in the hydrovane division of The Hymatic Engineering Co., Ltd., as part of a general expansion programme for sales of hymatic hydrovane compressors. **Mr. D. Fereday** is appointed sales manager, hydrovane division, and will be responsible for the marketing of the compressors both in Britain and overseas. **Mr. G. Seaton** is appointed home sales supervisor, hydrovane division. His responsibilities will be sales promotion and the control of the company's sales representatives and distributors in the home market. The company's outside sales force is augmented by the appointment of **Mr. J. Cahill** as sales representative for northern England.

Mr. D. H. J. C. White has been appointed a director of Portable Concrete Buildings, Ltd., the parent company of the Banbury group.

Sir Philip Southwell, C.B.E., M.C., B.Sc., F.G.S., has been appointed a director of The Cementation Co., Ltd.

Mr. G. E. Savory has been appointed assistant managing director of Ruston-Bucyrus, Ltd. **Mr. F. Wildmore** has been appointed to the board of the company as director and commercial manager. Mr. Savory has been sales director of the company since 1949, and Mr. Wildmore has been commercial manager since 1951.

Posford, Pavry and Partners, the London firm of consultant engineers, have announced that **Mr. J. F. C. Swansbourne,** M.Inst.C.E., and **Mr. P. W. Rowley,** B.Sc., M.Inst.C.E., have been taken into partnership, and that **Mr. D. Lax,** M.I.Struct.E., M.Inst.W., has been appointed consultant to the firm.

The new deputy chairman of Chamberlain Consolidated, Ltd., the parent firm of the Chamberlain group of companies, is **Mr. T. V. Emmerson.** He joined the group in 1952 as financial controller, and is a director of its member companies, Grant Lyon and Co., Ltd., Spencer Heath and George, Ltd., Chamberlain Holdings, Ltd., and Chamberlain Group Services, Ltd.

Mr. J. A. Campbell has been appointed sales manager of Kebric Plant, Ltd., Watford.

Mr. H. W. T. Hain has been appointed a director of Braithwaite and Co., Engineers, Ltd.

Trade and Company News

GERMAN PILING RIG USED ON STAG BREWERY SITE

PILING and foundation work is now practically complete on a new block of offices and flats which will tower 330ft. above Victoria Street on the Stag Brewery site, Westminster, S.W.1.

The area is one of intense building activity. In close proximity to this tower block is a multi-storey block of offices being built on the Victoria Street frontage by Taylor Woodrow Construction, Ltd., for occupation by Esso, and at its rear is a block of offices for Watney Mann being erected by Tersons, Ltd.

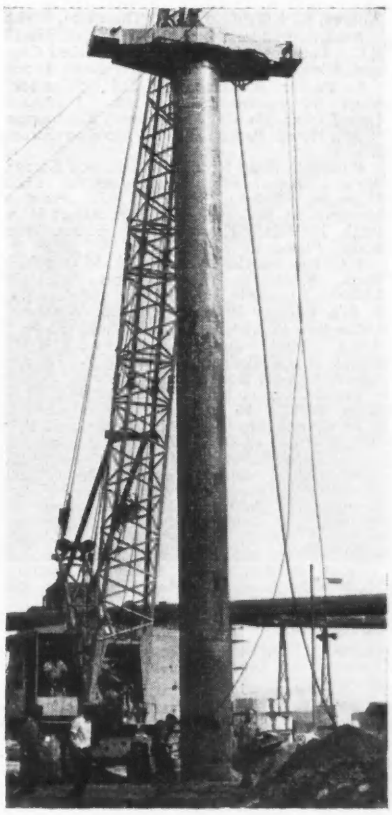
The nearness of these other buildings and the depth of foundations necessary for the tower block called for the sinking of a close-bored pile retaining wall around the perimeter of the site. For this work the contractors for the foundations, Economic Foundations, Ltd., employed the German Hochstrasser Weise equipment, for which they hold the sole rights in this country. Their own system of drilled and belled out foundation pillars has been used for the tower block foundations, and this is the first time that both systems have been used on the same site.

The Hochstrasser Weise equipment can be employed in conjunction with the auger or independently in soils unsuitable for auger operation. At Stag Brewery the retaining wall piles are 2ft. 6in. in diameter and about 40ft. long. They were sunk in up to 20ft. of slag and 20ft. of sand, and founded on a bed of ironstone.

Under the system a temporary steel tube is driven into the ground by means of a heavy swinghead which is oscillated on top of the tube. The movement is caused by the use of two compressed air cylinders. The swinghead moves through an arc of 30 degrees and is halted by a stop on the tube, retaining sufficient momentum to give it a slight movement and thus overcome the friction between ground and tube.

Material inside the tube is removed by grabs or bucket pumps, assisted by chisels where necessary. These grabs are of a special elongated design with spring jaws which snap shut when the grab hits bottom and are tripped open over the spoil heap.

When the required depth has been reached, the tube is filled with concrete. A pressure cap is then fixed to the top of the tube, compressed air is injected through it and the tube is extracted under control by regulating the air pressure and oscillating the tube by means of the swinghead.



The steel tube and swinghead

Foundation problems were encountered when the Stag Brewery was built on the site in 1796. There was marshy soil and even after probing 40ft. the builders failed to reach firm ground. Not having today's modern equipment, they used a raft of oakwood on which to rear the brickwork.

The main contractors for the tower block are Sir Robert McAlpine and Sons, Ltd. Howard, Fairbairn and Partners, 81 Piccadilly, London, W.1, are the architects, with Dean and Mason, 53 Victoria Street, London, S.W.1, acting as consulting engineers.

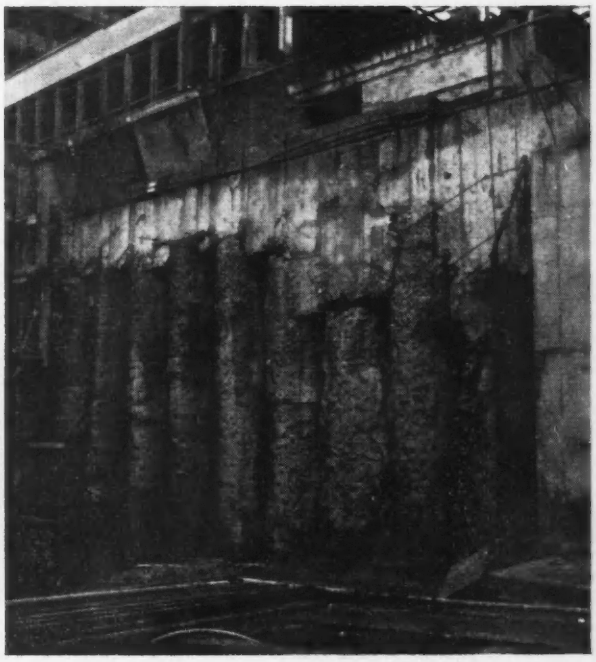
EQUIPMENT HIRE PURCHASE SCHEME

A new method of financing major items of industrial equipment over periods related to their useful working life is announced in a booklet, "Machine Life Finance," issued by Engineering Finance, Ltd., one of the United Dominions Trust group of companies. The method makes use of a long-term hire purchase agreement —the equipment itself is in normal cases the only security—but the finance charges are calculated on the reducing balance outstanding at a per annum rate linked to Bank Rate.

Hitherto, the use of hire purchase for large industrial undertakings embarking upon major expenditure has been of limited appeal: charges have been on a flat rate basis and transactions have been restricted in most cases to periods of three or four years. "Machine Life Finance," say the company, removes these limitations and will assist industrial concerns to undertake an expensive tooling programme without the introduction of permanent capital, without creating permanent liabilities or the necessity for registering any charge, and without disturbing bank or other credit lines.

These arrangements do not apply to vehicles or to industrial equipment with a high rate of depreciation, e.g., some contractors' plant. They are designed to apply to equipment with a long useful working life such as electronic computers, cranes and machine tools.

Hochstrasser Weise equipment being used on the site perimeter



The piled retaining wall, exposed after excavations

Trade and Company News

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Bastion Construction, Ltd., 1 Lower James Street, W.1, builders. £1,000. Directors: Michael R. D. Haseltine, 7 Stafford Terrace, W.2; Clive Labovitch, 9b Stafford ,Terrace, W.2; Ronald J. Rumble and Ronald H. G. Rumble.

Chepstown Plant Hire, Ltd., £5,000. Directors not named. Subscribers: George Stockwell, 95 Wentloog Road, Rumney, Cardiff (accountant); David P. R. Dickey, 16 Everard Way, Cyncoed, Cardiff (accountant).

G.S.C. (Contractors), Ltd., builders. £100. Directors: To be appointed by subscribers. Subscribers: V. J. Chown and D. E. Oxford, 6-7 St. John Square, Cardiff (solicitors).

Frank Bird (Builders), Ltd., Green Gables, Ripple, near Tewkesbury. £5,000. Directors: Francis W. Bird and Nancy Bird, Green Gables, Ripple, near Tewkesbury.

Duval Construction Co., Ltd., 97 Forest Road, E.8, builders. £100. Directors: George R. Overs and Emma E. Overs, 19 Laurel Street, E.8; Thomas J. Kirby, 217 Sinclair Road, E.4.

John Cowell and Co. (Bognor Regis), Ltd., 107 Felpham Road, Felpham, Bognor Regis, builders. £3,000. Directors: John N. Cowell, 1 Somerset Gardens, Bognor Regis; Mary B. Wren, Laburnum Cottage, Bridle Road, Slindon, near Arundel.

D. J. Saunders (Contractors), Ltd., builders. £100. Directors: David J. Saunders and Brenda Saunders, 6 Briar Avenue, Hazel Grove, Stockport.

Sandham, Ltd., "Bidford," Sandham Grove, Heswall Hills, Cheshire, building contractors, civil engineers, etc. £1,000. Directors: Richard H. Sandham, 14 Dyfan Road, Barry, S. Wales; John Thompson, 105 Oakhill Road, Liverpool, 13.

D. W. Chappell, Ltd., 3 Station Road, Sunbury-on-Thames, builders. £100. Directors: Derek W. Chappell and Yvonne J. Chappell, 52 Broadlands Avenue, Shepperton, Middlesex.

L. G. Fisk and Sons, Ltd., 11 Barbauld Road, N.16, builders. £100. Directors: Leslie G. Fisk, 11 Barbauld Road, N.16; Dennis W. Fisk, 59 Beech Holme Estate, E.5.

Hallamshire Erection Co., Ltd., Britannia House, Spring Street, Sheffield. £2,000. Ernest Elliott, 182 Barlow Road, Totley, Sheffield, signs as director.

Castle Donington Concrete, Ltd., Station Road, Castle Donington, near Derby. £1,000. Director: Kenneth F. Boardman-Weston, 80 Station Road, Castle Donington, near Derby.

Kennet Contractors, Ltd., civil, mechanical, electrical, consulting and general engineers. £100. Directors: Guy T. Shoosmith, Gangbridge House, St. Mary Bourne, Hants.; Michael A. H. Walford, Stamford R. F. Vanderstegen-Drake; Donald W. R. Addicott and Arthur R. Freeman. Subscriber: Arnold Aubrey, 67 Northfield Road, Thatcham, Berks.

Beehive Builders, Ltd., 194-200 Bishopsgate, E.C.2, builders. £100. Directors: Alfred Cope and Alice H. Jones, 136 Beehive Lane, Ilford.

J. Parker (Contractors), Ltd., "Cossack" Store, Silvertown, E.16. £100. Directors: Jack Parker, 53a Oakwood Court, Kensington, W.14; Henry Parker, 130-141 Solebay Street, E.3.

Plymouth Plant Hire, Ltd., Elburton Garage, Arcadia Road, Elburton, Plymouth. £500. Directors: Sidney E. Pugh, 35 Plaistow Crescent, St. Budeaux, Plymouth; Albert H. A. Pugh, 16 Wilson Crescent, Vine Estate, Milehouse, Plymouth.

J. G. Lee and Co. (Wigan), Ltd., 55 Ormskirk Road, Newtown, Wigan, Lancs., builders. £3,000. Directors: John G. Lee and Mrs. Ivy K. Lee, 3 Sunny Drive, Orrell, near Wigan.

Camford Plant Hire, Ltd., 53 Victoria Street, S.W.1. £100. Directors: Ada Watkins, 77 Putnoe Lane, Bedford; Anthony W. Ellison, 4 Sedley Taylor Road, Cambridge.

Foster Construction Co., Ltd., builders. £100. Directors: To be appointed by subscribers. Subscribers: Harold C. H. Archer and Eric W. G. Weale, 42 Dunstable Road, Luton.

Lodge-Hill Building and Carpentry Co., Ltd., 117a High Street, Croydon, Surrey. £100. Directors: Edward G. Woonton, 86 Headley Drive, New Addington, Surrey; James F. Lewinton, 70 Headley Drive, New Addington, Surrey; James H. Bryson, 23 Croydon Road, Croydon, Surrey.

Jukes Builders, Ltd. £2,000. Directors: Herbert N. Jukes and Mrs. I. E. Jukes, 439 Burton Road, Gedling, Notts.

Patron Structural Services, Ltd., 13 Southampton Place, W.C.1, structural engineers. £1,000. Directors: Marjory V. Sanders, 52 Valley Drive, Brighton; Hugh C. Rose, "Little Marshalls," London Road, Braintree, Essex.

Leonard Desmond and Co., Ltd., 11a St. Albans Road, Watford, Herts., builders. £1,500. Directors: Mrs. Eileen M. Richards, 15 The Fairway, Burnham, Bucks.; Mrs. Helga R. F. Smith, "Fantasia," Eghams Wood Road, Beaconsfield, Bucks.; Mrs. Ruth M. Hughes.

A £150,000 repeat order for nine A.E.C. Dumptruks, of the type pictured above, has been placed by Richard Costain, Ltd. The trucks will be put into operation on a round-the-clock schedule at Westfield opencast site, Fife. The sole concessionaires for the Dumptruk are Scottish Land Development Corporation

KEY STACK DRAINAGE SYSTEM DEMONSTRATED

A 15ft. pitch fibre stack drain and fittings was installed by two men in under two hours at a demonstration in Aberdeen recently.

Organised by The Key Engineering Co., Ltd., in conjunction with their Scottish area distributors, Rowebb, Ltd., the demonstration was held at Berrywell Walk, on the Dyce Ninth Development Housing Estate being built for Aberdeenshire County Council.

There were about 25 visitors, including Mr. A. G. Booth, Aberdeen city engineer, and members of his staff, Mr. T. Watson, Aberdeen deputy city architect, Mr. J. Ferguson, chief county sanitary inspector, and members of his staff, together with other county, city and private architects, and plumbing contractors.

After the demonstration, Mr. N. D. Bell, Key home sales manager, and Mr. H. A. Roemmele, managing director of Rowebb, Ltd., answered technical questions.

STORK PUMP ASSEMBLY STARTED

Rankin and Blackmore, Ltd., Greenock, have now started to assemble the Stork BU type pump, which has a capacity of 2-16.5 gallons per minute and heads up to 200ft. w.h. It is suitable for handling all liquids not containing solid particles and with a maximum viscosity of 90 sec. Redw. 1, e.g., hot and cold water, soapwater, petrol, light oils, etc.

A director of the firm, Mr. T. W. D. Abell, who made the arrangement with Stork and Co., of Hengelo, said: "We believe there is a growing demand for this type of pump in Britain. Shortly we hope to be assembling the full range of Stork pumps but in the beginning we are concentrating on the BU type."

All sales for Britain are being handled by Smail, Sons and Co., Ltd., 21-23 India Street, Glasgow.

UNITED AFRICA COMPANY REORGANISATION

The United Africa Co., Ltd., announces that it is reorganising its machinery and electrical business. The overseas companies dealing in this type of equipment are, organisationally, being formed into a separate group which will include a company in London called United Africa Mechanical and Electrical, Ltd.

This company will provide for its overseas associates and for the rest of the United Africa Group, buying and advisory services in connection with machinery and engineering equipment, electrical supplies, and refrigeration and air conditioning equipment of all kinds.

The board will have as executive directors, Mr. R. McPherson (chairman), Mr. R. Gore-Clough and Mr. A. G. Pointon. Mr. J. G. Clark, Mr. R. H. Coleman and Mr. F. G. Gledhill will also be members.

UNITED STEEL PUBLISH GROUP REVIEW

An attractive 55-page book, entitled "This Is United Steel," has been published by The United Steel Companies, Ltd., Sheffield, to give an account of the activities of the companies within the group.

Containing many photographs, some of which are in colour, the book reviews the wide range of products manufactured by the group, from watch springs to bridges and locomotives. The book also gives an outline of the companies' research departments, personnel and works' services and accounting organisations.

Trade and Company News

JCB TAKE OVER EXECUTIVE AIRCRAFT

Drive to Increase Exports

A RECENT handing-over ceremony at Hatfield marked the purchase by J. C. Bamford (Excavators), Ltd., of the first de Havilland Mark 8 Dove executive aircraft to be delivered in Europe.

Officially christened Exporter at the ceremony by Mrs. M. Bamford, the wife of the company's chairman and managing director, the new Dove 8 was built by The de Havilland Aircraft Co., Ltd., and is powered by two Gipsy Queen 70 Mark 3 engines, each of 400-h.p. With increased power and performance, superior equipment and improved furnishing, the new series of Dove has passenger seats for up to six people with a high degree of comfort and quietness. Practical stages of some 600 statute miles, with reserves, are possible when carrying six passengers and luggage, cruising at up to 210 m.p.h. The Bamford aircraft has long-range tanks, so that, besides flights of that order, it is able also to make long stages, up to 1,100 statute miles, with reserves, when carrying a reduced payload.

Speaking before the ceremony, Mr. J. C. Bamford said that the aircraft would enable the firm's executives to keep in closer touch with export markets, allowing them to meet increasing competition. Executives must be got to the right place at the right time, and business could not be done satisfactorily if contacts with potential customers were dependent on arrival and departure times of scheduled air services.

Current exports of the firm's hydraulic excavators, said Mr. Bamford, were running at 43 per cent. of production, and within two or three years they expected to increase exports to between 60 and 70 per cent. of production, mostly within Europe.

Mrs. Bamford performs the christening ceremony, with (centre) Mr. J. C. Bamford, and (left) Mr. H. Sturgeon, of de Havillands.

His company, he announced, were ready to place an order with de Havilland as soon as the latter could intimate that such an order was possible, for what would probably be Britain's first jet executive aircraft.

TOOTAL-U.A.M. IN JOINT VENTURE

The Universal Asbestos Manufacturing Co. Ltd., and Thermo Plastics, Ltd., a member of the Tootal Group, have formed, as equal partners, a new manufacturing company, Allied Structural Plastics, Ltd., with a capital of £100,000. On the Board of the new company are Mr. James Morrish and Mr. F. R. B. Lockwood of Thermo Plastics and Mr. D. Kirkness and Mr. P. Talbot-Smith of U.A.M.

In a joint statement, the parent companies say: "The alliance will be able to utilise the complementary experience of the two companies to provide full resources for the design, manufacture and marketing of a complete range of plastics goods for the building industry. We believe that there will be a tremendous growth in the use of plastics materials in the industry, not only as components but as structural materials in domestic as well as industrial applications."

UNITED STEEL PURCHASE NOTTINGHAM FIRM

The United Steel Companies, Ltd. have acquired G. R. Turner, Ltd., Langley Mill, Nottingham, for a price in the neighbourhood of £150,000.

The firm, which will be controlled by United Steel Structural Co., Ltd., will provide additional production capacity for the fabrication of structural steelwork.

MOBILE SCAFFOLD STAGING UNIT

Martin Thomas, Ltd., Hayes Road, Southall. Middx., are now marketing a redesigned version of their mobile staging units, known as the Hi-Way. This is built from aluminium tubing and is quickly erected, the joints being made by snap-action hooks.

The weight of a single staging unit is under 2cwt. It is built to carry a working load of 800lb., and the standard platform fits at intermediate levels. Four-foot span step stagings may be used together. A leg adjustment of 18in. enables the staging to stand evenly on steps or rough ground.

HEAD WRIGHTSON 18 MeV BETATRON

Head Wrightson (Teesdale), Ltd., have placed an order with Pantak, Ltd., Vale Road, Windsor, for an 18 MeV Siemens Betatron. This mobile particle accelerator, claimed to be the most sensitive X-ray unit currently planned for use by U.K. industry, will operate in the heavy fabrication shop at Thornaby-on-Tees.

Amongst the first applications are expected to be those of weld examination on the 4in. thick walled steam raising units or heat exchangers for the Dungeness nuclear power station. On this duty an examination of a 4in. thick weld can be made in less than two minutes.

HIGH PRESSURE DEGREASING APPARATUS

OPANCOL, LTD., 20 Tooks Court, Cursitor Street, London, E.C.4, have concluded licence agreements for marketing in this country a new Canadian cleaning and degreasing apparatus known as the Kleen Gun.

This device uses the waste gases from a tractor or any 2½-litre engine, and with the aid of a suitable cleaning compound mixed with water, develops a high pressure cleaning vapour which will remove grease or caked-on mud. The pressure at the nozzle end is in the region of 150lb. to 200lb. per sq. in.

The apparatus is complete with 14ft. stainless steel flexible hose, universal exhaust cone attachment and chromium plated tubing, and retails at £39 10s. Besides cleaning, it can be used for spraying creosote, whitewash, insecticide, etc., as well as burning brush, weeds, and oil from factory floors, when a flame attachment is fitted.

The cleaning compound is supplied in two grades—No. 2 for general everyday cleaning and degreasing without damage to paintwork—the grade No. 3, a stronger compound containing 10-15 per cent. caustic.

THREE-POINT PIPE BENDER

A new hydraulic three-point bending machine has been introduced into the Staffa range of pipe bar and section benders.

The bender, which has been designated the B2 and which does not require a bench or stand, consists of a hydraulic pump ram unit, a forming head assembly and centre formers for ½in. to 1½in. nominal bore pipes to BSS.1387.

The price of the complete machine, including formers and the wooden case, is £35. The manufacturers are Chamberlain Industries, Ltd., Staffa Works, Argall Avenue, Leyton, London, E.10.

SMALL MIXER FROM AMERICA

A new portable industrial mixer from America occupies a space of only 2ft. square and will mix 8 cu. ft. of concrete an hour continuously.

It may be used for mixing many types of material and mixes an average load of 50lb. or 4½ gallons. It is operated by a ¼-h.p. single-phase electric motor, and can be plugged into any 5-amp. supply providing it is suitably earthed. The cost is £24, plus 10s. carriage.

CEMENTATION RESEARCH CENTRE OPENED

A new research centre for the Cementation Group was opened recently at Maple Cross, near Rickmansworth.

The work of the centre is divided into four main sections—civil engineering, mechanical engineering, physics and chemistry. Each of the units is served by 10 or more research investigators, scientists and technologists. Dr. R. A. Scott, Ph.D., F.Inst.P., is in charge.

NEW SCOTTISH CONTRACTING COMPANY

A new company, Stewart and Lind, Ltd., has been formed jointly by Lanarkshire Builders, Ltd., Mossend, Bellshill, and Peter Lind and Co., Ltd., Westminster, to carry out building and civil engineering contracts in Scotland.

The directors are T. M. Jaeger, chairman; E. M. Barnes; H. H. S. Mygind; J. McW. Norman; F. E. Prior; and R. D. Stewart.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Ayr.—B.C. have approved plans for extensions, 30-32 Alloway Street, for Messrs. Hourstons. Estimated cost £95,000.

Dean of Guild Court have approved plans for extensions at Newton Works, McCall's Avenue, for William C. Gray and Sons, Ltd. Estimated cost £17,500.

Barnsley, Yorks. — B.C. recommended to apply for sanction to borrow £2,060 for kitchen and dining room extensions at Broadway Technical Grammar School.

B.C. recommended to make provision in the estimates for the ensuing year for provision of cafe accommodation at Cannon Hall. Estimated cost £4,000.

Basildon, Essex.—U.D.C. have approved for inclusion in the 1961-62 estimates the provision of changing accommodation at Wickford Memorial Park. Estimated cost £3,000.

Bath, Som. — City Council have approved plans for second phase of improvements at the Cattle Market. Estimated cost £8,300.

Berkshire.—E.C. have approved in principle, proposals for main youth centres at Abingdon, Newbury, Wokingham and Didcot, estimated cost £35,000 each; neighbourhood centres at Bracknell and Maidenhead, £15,000 each; covered sports stadium at Bulmershe, near Reading.

Bexley, Kent. — B.C. to prepare plans for improvements to the toilet facilities at Brampton County Primary School. Estimated cost £4,000.

Billingham-on-Tees, Dur.—Plans are being prepared by Elder and Lester, Town Square, Queensway, for extending hotel in the Town Square for Newcastle Breweries, Ltd., Haymarket, Newcastle upon Tyne.

Birkenhead, Ches.—B.C. have approved in principle, plans for the redevelopment of the central shopping area providing for a pedestrian shopping precinct the length of Grange Road, with service roads behind and car parks for 2,000 cars.

Birmingham. — Regional Hospital Board recommended to approve, in principle, schemes for conversion of male nurses' old quarters into patient accommodation at All Saints Hospital, estimated cost £14,000; modifications to resident staff quarters at Marston Green Maternity Hospital, £2,587; improvements to Brookfields House (part III accommodation) and provision of separate access at Summerfield Hospital, £2,020; provision of five flats at 200 Hampstead Road for use as medical staff quarters for Dudley Road Hospital, £5,375; provision of a timber building for use as pathological laboratory at Little Bromwich General Hospital, £8,900.

Birmingham.—L. C. Wakeman and Partners, 11 Highfield Road, Edgbaston, are the quantity surveyors for the extension to Queen Elizabeth Hospital, Edgbaston, for the United Birmingham Hospitals. Architects are Lanchester and Lodge, 10 Woburn Square, London, W.C.1.

Working drawings are being prepared for the erection of industrial premises fronting Great Lister Street, in the Nechells Green redevelopment area, for Parkes and Mainwarings, Ltd., F. Potter and Associate, 3 Vicarage Road, Edgbaston, are the architects and Wood and Allsebrook, 16 Harborne Road, Edgbaston, quantity surveyors for the scheme. Estimated cost £36,000.

Birmingham University to erect two halls of residence for students (High Hall and Ridge Hall) on the Vale Wyddrington site, Edgbaston. Architects for the scheme are H. G. Wicks, of Harvey and Wicks, Berkeley House, 119 Hagley Road, Edgbaston, and H. Jackson, of Jackson and Edmonds, 28 Augustus Road, Edgbaston, in collaboration with Sir Hugh Casson and Neville Conder, quantity surveyors are Silk and Frazier, 35 Portland Road, Edgbaston, electrical consultant, A. J. P. Pashler, 50 Newhall Street, and structural engineer, S. Willis, 41 Water Street.

J. H. D. Madin, 83 and 85 Hagley Road, Five Ways, Edgbaston, is the architect for the erection of new headquarters at Pebble Mill Road, Edgbaston, for the B.B.C.

City Council recommended to approve the provision of two junior special training centres at Stechford and Selly Oak. Estimated cost £72,532.

City Council recommended to lease land for the erection of industrial premises at Smith Street, to the Metro Tyre Co. (Birmingham), Ltd., 87 Snow Hill; Bullock Street—Le Marquand Motor Rewinds, 162 Springhill, Edgbaston; Hospital Street—Linread, Ltd., 26 Cox Street; Charles Henry Street—Stevens and Bishton Engineering Co., Ltd., 40-42 William Edward Street, Calthorpe.

Blackburn, Lancs.—B.C. recommended to apply for sanction to borrow £27,000 for new ambulance station to be erected at the corner of Addison Street and George Street West.

Blackpool, Lancs.—Grange Park Tenants' Association propose the erection of a community centre in Dinmore Avenue. Estimated cost £5,000.

E.C. have approved final plans for the erection of the St. Catherine's R.C. Secondary School on Garstang Road West.

Boldon, Dur.—County Architect has prepared plans for erection of a branch library at West Boldon.

Bolton, Lancs.—Manchester Regional Hospital Board Buildings and Works Committee have approved in principle scheme for upgrading of Musgrave Ward at Royal Infirmary. Working drawings and bills of quantities to be prepared with a view to work being undertaken during 1961-62.

Bradford, Yorks.—City Council recommended to approve revised scheme for phase I of the redevelopment of John Street Market, estimated cost £270,000; supplementary estimate of £4,000 for extension of passenger hall at airport.

City Architect to be instructed to prepare a scheme for improvement of toilet accommodation at Town Hall.

Brighton, Sussex.—Ministry have approved B.C.'s schemes for the provision of a youth wing and accommodation for evening classes at East Brighton Secondary School, estimated cost £7,500 and £5,000, respectively; youth wings at Bevendean, Carden and Coldean Junior Schools and Saltdean Infants' School, £8,250, £7,000, £1,500 and £5,000, respectively.

B.C. recommended to invite tenders in due course from selected contractors for the conversion and renovation of Glenside Hotel into accommodation for school services, youth employment bureau and youth centre, etc., estimated cost £17,645; apply for sanction to borrow £4,600 for the provision of 20 beach huts at Peter Pan's Playground, site 6.

Bristol.—City Council recommended to apply for sanction to borrow £11,500 for the restoration of the tower of St. Mary-le-Port Church.

City Council recommended to lease land, subject to Ministry approval, at Greystoke Avenue (two sites) to Bristol Brewery Georges and Co., Ltd., Bath Street, Bristol, and at junction of Coldpark Road and Four Acres, Withywood, to Stroud Brewery Co., Ltd., Stroud, for the erection of licensed premises.

Bromsgrove, Worcs.—Birmingham Regional Hospital Board recommended to approve, in principle, scheme for provision of a corridor between two wards in the maternity department at the General Hospital. Estimated cost £2,500.

Burton-upon-Trent, Staffs. — B.C. recommended to approve sketch plan and invite tenders in due course for the erection of a residential home at Hawfield Lane.

Bury, Lancs.—B.C. to commence work this year on the new sports arena at Goshen, scheme to be carried out in three stages. Estimated cost £51,000.

Cambridge.—Tenders are expected to be invited shortly for the erection of the first stage of a new building for Fitzwilliam House, providing part residential and part collegiate accommodation. D. Lasdun, of Fry, Drew, Drake and Lasdun, 63 Gloucester Place, London, W.1, is the architect for the scheme.

Carlisle, Cumb.—Planning authorities are considering the erection of a storage building at Botcherby Mill, for B. Mandale. The architects are Graham, Roy and Nicholson, 6 Paternoster Row, Carlisle.

Chislehurst and Sidcup, Kent.—U.D.C. hope to proceed with the erection of public conveniences at St. Johns Road, Sidcup, during June.

Colchester, Essex.—Co. E.C. have approved sketch plans for improvements at Royal Grammar School and the erection of a maintenance and staff workshop at the North-East Essex Technical College. Estimated cost £100,000 and £3,470, respectively.

Colwyn Bay, Denbighs. — B.C. to prepare scheme for the provision of covered accommodation at the Eirias Park Sports Arena.

Corby, Northants. — S. Dodson and Son, Museum Buildings, Peterborough, are the architects and C. E. Smart, Market Place Chambers, Peterborough, quantity surveyors, for the erection of a church hall at Beanfield Avenue. Contract not yet out to tender. Estimated cost £20,000.

Coventry. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for provision of hospital administrative offices at the Coventry and Warwickshire Hospital. Estimated cost £17,200.

Crook, Dur.—The Industrial Managements Corporation, Team Valley, Gateshead, are to erect an office block at New Road. The architects are Fennell and Baddiley, Bridge End Chambers, Chester-le-Street, Co. Durham.

Croydon, Surrey.—B.C. recommended to approve the conversion of 131 Bensham Grove into a temporary Adult Training Centre, estimated cost £2,500; preliminary plans for erection of a temporary transferable classroom at Fairchilds Junior Mixed School, Fairchilds Avenue, New Addington, £1,600; submit to Ministry for approval preliminary plans for extensions and adaptation at Norbury Manor Secondary Boys' School, Stanford Road, Norbury, £111,500; plans for adaptations to form science laboratory and erection of two temporary transferable classrooms at Overbury Secondary Mixed School, Overbury Crescent, New Addington, £5,000.

B.C. recommended to approve, subject to conditions, plans for erection of offices, shops, showrooms and car park at 420-426 London Road, and 1 Broad Green Avenue, for Rabruns, Ltd., 380 London Road, Croydon; factory, offices and canteen block at rear of 5 Commerce Way, Waddon, for Percy Boyden and Co., Ltd.; conversion of shop and first floor into offices at 27 George Street, for Bradford Equitable Building Society, 45-47 Bank Street, Bradford, 1; extension to printing works at Overton's Yard, for The Croydon Advertiser, 36 High Street; offices and flats with parking facilities and redevelopment of the Royal Oak public house on site bounded by Brighton Road, Purley Downs Road and Riddlesdown Road, for Taylor Woodrow Industrial Estates, 41 Welbeck Street, London, W.1.

Darlington, Dur.—H. B. Richardson, 3 Skinnergate, is the architect for additions to Darlington Club and Institute, High Northgate, and garage and offices at Valley Street North, for R. A. Hunter; Industrial and Marine Salvage, Ltd., Station Road, Hetton, propose industrial buildings at Union Place; plans have been approved for supermarket at Northgate for Larches Estates, Ltd. The architects are Gillinson and Barnett, 8 Queens Square, Leeds, 2.

Doncaster, Yorks.—Sheffield Regional Hospital Board recommended to approve B.C.'s plans for the erection of a recreation block and improvements to two female blocks at Western Hospital. Estimated cost £10,000 and £7,000, respectively.

B.C. recommended to approve scheme for extensions at bus depot in Leicester Avenue. Estimated cost £20,000.

Doncaster, Yorks.—R.D.C. recommended to approve plans for the erection of open air swimming baths at Campsall, Rossington, Edlington and Armthorpe. Estimated cost £15,000 each.

Dover, Kent.—B.C. recommended to approve scheme for the construction of new public conveniences at Crabble Athletic Ground. Estimated cost £1,500.

Dover, Kent.—War Office propose the partial demolition and reconstruction of Connaught

Barracks, Castle Hill, commencing in July, estimated cost £575,000, and the second phase of modernisation and extensions at Old Park Barracks in April 1962, £250,000.

Town Planning Committee have approved plans for the erection of an ablution and mess room at the Gas Works, Union Road, for the South Eastern Gas Board.

Dublin, Eire. — Tenders are to be invited soon for the erection of a 17-storey office building of 32,000 sq. ft. at the junction of Eden Quay and Beresford Place for the Irish Transport and General Workers' Union. 94 Merrion Square West, Dublin. Desmond Rea O'Kelly, structural engineer, 15 Fitzwilliam Square, Dublin. Estimated cost £300,000.

Dudley, Worcs. — B.C. have approved in principle sketch plans for additional accommodation at the Central Library. Estimated cost £25,000.

B.C. recommended to submit to M.E. for approved final plans for a gymnasium at Dudley Girls' High School; appoint S. Willis, 41 Water Street, Birmingham, as structural engineer and invite tenders from selected contractors for extensions to Dudley Grammar School.

Durham.—Plans are being prepared by E. A. Gunning, 18 Eldon Square, Newcastle upon Tyne, for the erection of craft rooms at St. Lennard's School, North Road.

C.C. to start work in the midsummer on the erection of the new Jarrow West Simonside Modern School, which will be built under the C.L.A.S.P. system.

Ealing, Middx. — B.C. recommended to approve outline plans prepared by County Architect for the first phase of development of St. Ann's Secondary Girls' School, comprising the provision of two science laboratories, kitchen and dining room, estimated cost £20,000, and for extensions and modernisation of Walpole Grammar School.

Edinburgh.—Dean of Guild Court have approved the following: Alterations to the female villa and annexe at the Royal Edinburgh Hospital for Mental Disorders, estimated cost £40,000; extension and alterations to ward 4 at the Northern General Hospital, Ferry Road, £29,000, and erection of a wine and spirit store at 160 Canongate and 51 Holyrood Road for Scottish and Newcastle Breweries, Ltd., £27,000.

Edlington, Yorks.—West Riding C.C. recommended to approve expenditure of £10,000 (building work £8,850, furniture and equipment £1,150) for erection and equipping new branch library.

Falkirk, Stirlings.—Dean of Guild Court have approved the erection of shops and flats in a four-storey building for B.C. and Falkirk and District United Co-operative Society, Ltd., 200 Graham's Road, Falkirk. Estimated cost £24,000.

Falmouth, Corn.—Co. E.C. recommended to approve the erection of a two-storey prefabricated building at County High School for Girls. Estimated cost £10,500.

Farnborough, Hants.—Area Planning Committee have approved in principle, the erection of a telephone exchange at Woodlands, Reading Road, for Ministry of Works.

Farnham, Surrey. — U.D.C. propose the repair and improvement of Hale Cemetery Lodge. Estimated cost £1,500.

Folkestone, Kent.—Chamberlin Powell and Bon, architects, 15 Avenue Studios, Sydney Mews, London, S.W.3, are preparing plans for the development of land fronting The Leas, from the War Memorial to Langhorne Gardens, for Lord Folkestone.

Glasgow. — Planning Committee have approved the following: Major administrative building at Drakemire Drive, Glasgow, S.5, for Ministry of Works; erection of a primary school at St. Bernadette's, 435 Bilsland Drive, for City Education Department; extension of premises at 26-40 Brown Street, for Glasgow Tobacco Warehouse Co., Ltd.; single-storey extension to printing factory at Foulis Street-Caxton Street for Robert Maclehose and Co., Ltd.; and a new store in Argyle Street and Miller Street for F. W. Woolworth and Co., Ltd., 242 Marylebone Road, London, N.W.1, estimated cost £500,000.

Grangemouth, Stirlings. — Dean of Guild Court have approved the erection of a public house at Dalgrain Road for Thomas Usher and Son, Ltd., The Park Brewery, St. Leonard's Street, Edinburgh. Estimated cost £12,000.

Great Yarmouth, Norfolk.—Borough Engineer to prepare working drawings and bills of quantities for the Poplars Hostel.

Hampshire.—Home Office have approved the erection of a fire station at Eastleigh during 1961-62 for Fire Service Committee. Estimated cost £50,000.

Harlington, Middx.—C.C. recommended to approve scheme for erection of a fire station at the junction of High Street and Watery Lane. Estimated cost £71,995.

Harrogate, Yorks.—West Riding C.C. recommended to approve provision of swimming bath at the Harrogate Technical High School, expenditure involved to be met from balance between cost on tender for erection of the school and the approved cost allowance, and that the swimming bath be heated from the boilerhouse to be erected for the new secondary school included in the the new secondary building programme, 1962-63, and that the swimming bath be constructed in conjunction with the new secondary school.

Hemsworth, Yorks.—West Riding C.C. recommended to approve expenditure of £1,300 for provision of drill yard at retained fire station.

Hereford.—Birmingham Regional Hospital Board recommended to approve, in principle, scheme for improvements to staff houses 10, 11, 12, 13, 30 and 31 at Burghill Hospital. Estimated cost £5,300.

Hertford.—Co. E.C. have approved, subject to Ministry approval, plans for the second stage of Sele Farm Junior Mixed and Infants' School. Estimated cost £44,734.

Hertfordshire.—Working drawings are being prepared for the first stage of the new South-West Herts. College of Further Education at Water Lane, Watford, for C.C.

Hull.—City Council propose maternity and child welfare clinic in Coltman Street. Estimated cost £37,400.

Islington.—L.C.C. to modernise and equip B and G blocks at Hillside welfare centre, estimated cost £100,415; approve the acquisition of a site in Caledonian Road for the erection of a three-form entry Roman Catholic school.

Jarrow, Dur. — Neolith, Ltd., 157 Elswick Road, Newcastle upon Tyne, are to erect a factory costing about £35,000 under the authority of the Estates Management Corporation, Team Valley Trading Estate, Gateshead. An architect will be appointed shortly.

Kirkcaldy, Fifes. — B.C. have approved the submission of plans to the Secretary of State for the development of the central area, including swimming baths costing £200,000, a large hotel, department stores and a county bus station. Estimated cost £2m. or £3m.

Kirkcaldy, Fifes.—Melville Brodie Engineering Co., Sinclairtown Foundry, propose to erect a new factory on a 20-acre site on the Hayfield industrial site. Planning permission, in principle, has been granted.

Lambeth.—L.C.C. approved the erection and equipment of a home for old people at Norwood House. Estimated cost £200,675.

A new two-storey teaching block, hall and kitchen are planned at St. Stephen's C.E. Primary School. Estimated cost £61,735.

Lancashire.—C.C. propose to erect a Civil Defence centre between Hall Land and Moorcot Road in the Kirkby town centre.

Leamington Spa, War. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for a dispensary at Warneford Hospital. Estimated cost £7,000.

Leatherhead, Surrey.—Standing Joint Committee recommended to include in the 1961-62 programme, scheme for extension and adaptation of existing building to improve inadequate accommodation, provision of car park, garages, petrol pump, conference and recreation rooms on back land at Leatherhead Sub-divisional Police Station. Estimated cost £15,000.

Leeds.—Town Planning and Improvements Committee have approved outline application submitted by Industrial and Investment Services, Ltd., 129 Finsbury Pavement, London, E.C.2, for the redevelopment of the site of the Empire Theatre in Briggate as shopping arcades and offices, including a basement car park.

Town Planning and Improvements Committee have approved plans for new clothing factory on a 2½-acre site at Seacroft light industrial estate for Town Tailors, Ltd., Bespoke, Mabgate, Leeds, 9; lease granted to Simms Motor Units, Ltd., 2 South Brook Street, Leeds, 10, for motor unit repair shop, spares store, distribution depot and offices in Jack Lane and Leathley Road, Hunslet.

Leek, Staffs.—Birmingham Regional Hospital Board recommended to approve, in principle, scheme for drainage and concreting of floors to three coal bunkers at St. Edwards Hospital, Cheddleton. Estimated cost £1,500.

Lichfield, Staffs. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for a central sterile supply department at Victoria Hospital. Estimated cost £2,710.

Littlehampton, Sussex. — U.D.C. to appoint Egerton W. Owen, Norfolk House, Beach Road, Littlehampton, as architect for the erection of a new cemetery chapel.

Lurgan, Armagh. — B.C. have approved in principle plans for the construction of an indoor swimming pool at Lurgan Park. Estimated cost £160,000.

Lytham St. Annes, Lancs. — B.C. recommended to approve plans for erection of bars, restaurant, flats and private garages on existing car park at the Majestic Hotel, St. Annes Road West, for Majestic Hotel (Fylde), Ltd., North Promenade, St. Annes.

Manchester.—Regional Hospital Board Building and Works Committee have approved in principle scheme for enclosing of open corridors linking second floor wards of all ward blocks and the administrative building of the main hospital at Crumpsall. Working drawings and bills of quantities to be prepared with a view to work being undertaken during 1961-62.

Ministry have approved working drawings and bills of quantities for first phase of adaptations to Burton Road premises in the South Manchester Group to provide accommodation for nurses and school facilities for child patients at Royal Manchester Children's Hospital, Pendlebury, for Regional Hospital Board. Estimated cost £50,087 and £2,590, respectively.

Middlesbrough, Yorks. — B.C. proposes spending £36,000 laying out industrial estate between Cargo Fleet Lane and Merlin Road.

Head Wrightson and Co., Ltd., Thornaby-on-Tees, are acquiring premises in Lower East Street, for the erection of an office block, or a machine shop, whichever is regarded as most urgent when the land is available.

B.C. approved outline plans submitted by Wansbrough, Robinson, Taylor and Taylor, Alliance House, Baldwin Street, Bristol, for rebuilding shop premises at 55-57 Linthorpe Road for Lennards, Ltd.

S. Smith Old Brewery (Tadcaster), Ltd., Tadcaster, are seeking permission to erect a public house at Bollington Road, Easterside.

Proposals are being considered for converting the Regent and Palladium cinemas into self-service stores. The promoters are Ceres Investments, Ltd., whose agents are Albert Walker and Son, 2 West Terrace, Redcar.

Middlesbrough, Yorks.—Corporation Parks Committee have approved scheme for converting Prissick farmhouse, Marton, into a combined office block, stores and transport centre. Estimated cost £9,100.

Midlothian.—C.C. propose to erect a factory of 70,000 sq. ft. near Dalkeith for Ferranti, Ltd., Hollinwood, Lancashire. Estimated cost £250,000.

Newbury, Berks. — B.C. recommended to negotiate a tender with Campbell and McGill, Ltd., Old Woking, Surrey, for repairs to the bottom of the swimming pool. Estimated cost £1,700.

Newcastle upon Tyne.—Reavell and Cahill, Lloyds Bank Chambers, Alnwick, are the architects for alterations to Martins Bank, Addison Road; revised plans by Newcombe and Newcombe, 23 Eldon Square, Newcastle upon Tyne, have been approved for church hall at Cheviot View, Byker, for St. Michael's Church. A contract is not expected to be placed for at least two months.

North Shields, Northumb.—W. B. Edwards and Partners, 5-6 Claremont Buildings, Eldon Place, Newcastle upon Tyne, are the architects for new offices to be built for Smith's Dock Co., Ltd. The building will cover about 30,000 sq. ft. but the scheme is still in the sketch plan stage and it will be some months before tenders are invited.

Nottinghamshire.—C.C. have approved the erection of two comprehensive schools, one at Ollerton and one at Kirby-in-Ashfield. Estimated cost £1m.

Nuneaton, War.—B.C. recommended to approve the construction of an abattoir, meat market and cold store. Estimated cost £135,000.

Town Planning Committee have approved schemes for extensions to factory premises at Avenue Road for D. and R. Closers, Ltd.; extensions and alterations to factory premises and demolition of cottages at Queens Road for A. Conner and Co., Ltd., Fife Street, Nuneaton; erection of licensed premises (The Glaziers Arms) at Weddington Road for James Eadie, Ltd., Cross Street, Burton-on-Trent, Staffs.; extensions and alterations to the Midland Bank at Newdegate Street/Harefield Road, for Midland Bank, Ltd.

Oxted, Surrey.—Standing Joint Committee recommended to include in the 1961-62 programme, scheme for the provision of block of garages with conference/recreation room above and additions. Estimated cost £11,500.

Paddington.—L.C.C. approved proposals for the construction of a gymnasium and other improvements at North Paddington Secondary School. Estimated cost £44,160.

Pembury, Kent.—South East Metropolitan Regional Hospital Board recommended to appoint Scannell and Manby, 48b London Road, Kingston-upon-Thames, Surrey, as quantity surveyors for the erection of a gynaecological block at Pembury Hospital.

Pontefract, Yorks.—West Riding C.C. recommended to approve the erection of a prefabricated building for the Youth Employ-

ment Service and storage accommodation for Divisional Medical Officer in the grounds of Baghill House. Estimated cost £4,687.

Preston, Lancs.—Manchester Regional Hospital Board Planning and Development Committee have approved the inclusion in the 1961-62 programme of a scheme for the erection of a prefabricated building at Royal Infirmary to accommodate 18 patients at an estimated cost, excluding furnishings, of £25,000, and the erection of a prefabricated extension to the X-ray department to accommodate the special investigation apparatus used in neurosurgical work.

Manchester Regional Hospital Board Buildings and Works Committee have approved in principle scheme for provision of new animal house at Royal Infirmary. Working drawings and bills of quantities to be prepared with a view to work being undertaken during 1961-62.

Redhill, Surrey.—Standing Joint Committee recommended to include in the 1961-62 programme, scheme for the conversion of former fire station into a police station. Estimated cost £7,100.

St. Helens, Lancs.—Health Committee have approved revised plans for new ambulance headquarters in Jackson Street, Parr, for submission to the Ministry.

Salford, Lancs.—Ministry have approved working drawings and bills of quantities for conversion of E block to provide chronic sick accommodation at the Ladywell Hospital for Manchester Regional Hospital Board. Estimated cost £49,829.

Shoreditch.—L.C.C. approved plans for the erection of a new divisional fire station at Old Street. Estimated cost £184,450.

Shrewsbury, Salop. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for improvements to X-ray department at Royal Salop Infirmary. Estimated cost £5,400.

Shrewsbury, Salop.—Co. E.C. have approved scheme for the erection of a hostel at the Shropshire Farm Institute, Walford Heath, during 1961-62. Estimated cost £78,300.

R. J. Husband, 126 Wigmore Street, London, W.1, is the architect for the erection of a multi-storey car park at Barker Street, for Phillip Allman and Co., Ltd.

Slough, Bucks. — L.C.C. approved the erection of a further 144 garages at Britwell estate, at an estimated cost of £21,850.

Southampton.—B.C. recommended to prepare plans for stage 3 of the Redbridge Fire Station and modernisation of approximately 100 houses at Hampton Park; appoint Gutteridge and Gutteridge, 45 Westwood Road, as architects for the modernisation of council buildings, Simnel Street, and E. Morley Smith, 17 Cumberland Place, as quantity surveyor, for the erection of Hightown Secondary School; approve the provision of temporary accommodation in the former King Edward VI Grammar School building. Estimated cost £1,250.

B.C. recommended to approve, subject to M.E. approval, sketch plans prepared by following architects: W. H. Saunders and Son, 22 Brunswick Place, for extension of Moorhill County Primary School to one-form entry junior mixed and infants', £32,419; Weston, Burnett and Thorne, 44 Westwood Road, for staff room, etc., at Bitterne C.E. Primary School, £1,200; Galloway and Partners, 10 Portland Street, for assembly hall and kitchen, etc., at St. Monica Primary School, £19,750; Sutcliffe, Brandt and Partners, 57 Above Bar, for modernisation of lavatories at Albert Road section of the Technical College, £1,200.

Southgate, Middx. — C.C. recommended to approve scheme for erection of a fire station at High Street. Estimated cost £57,235.

Southwold, Suffolk.—B.C. recommended to approve in principle and invite tenders in due course for enlargement of the existing conveniences on the caravan and camping site, and the provision of conveniences for the general public in part of the Harbourmaster's Store; prepare plans for the erection of public conveniences in the vicinity of the pier.

Stafford. — Birmingham Regional Hospital Board recommended to include in capital programme scheme for provision of stores building and nurses' dining accommodation at Staffordshire General Infirmary. Estimated cost £4,000.

Stoke - on - Trent, Staffs. — Birmingham Regional Hospital Board recommended to approve, in principle, schemes for provision of temporary additional accommodation for the casualty department at North Staffordshire Royal Infirmary, estimated cost £3,000; boiler house, boiler plant and ancillary equipment and cardiological department at City General Hospital, £120,000 and £7,900, respectively.

Stourbridge, Worcs.—B.C. recommended to prepare revised plans for additional office accommodation at Council Offices.

Sutton Coldfield, War. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for an out-patients' department, administrative and casualty block at Good Hope Hospital. Estimated cost £466,250.

Sutton and Cheam, Surrey.—Robert J. Wood and Partners, 29 Widmore Road, Bromley, Kent, are the architects for demolition of properties at 29-37 Brighton Road, Sutton, and erection on site of a 12-storey office block with shops and car parks, for Spain Brothers, Mrs. Holford and F. Farrell (planning approval not yet granted).

B.C. recommended to grant planning permission, subject to condition, for a five-storey office block with shops and parking facilities on Cock Hotel site, for Commercial and Suburban Properties, Ltd., 15 New Bond Street, London, W.1.

Walthamstow, Essex. — B.C. recommended to approve revised plans for the new laundry block to be incorporated in the scheme for the new centralised depot at Low Hall Farm; approve, in principle, plans by White and Mileson, architects, Old Station Road, Loughton, for extensions at Hale End branch library; invite tenders from selected contractors for new buildings at Stoneydown Junior Mixed School; approve scheme for remodelling of lavatory facilities at Edinburgh Junior Mixed School.

B.C. recommended to approve, subject to conditions, plans for the erection of office with flat over, loading bays, strong room and access road at 10-12 Erskine Road, E.17, for F. W. Dawson and Co., Ltd.

Wandsworth. — L.C.C. approved the conversion of East Lodge, Argyle estate, to provide self-contained dwellings and garages. Estimated cost £13,700.

Wednesbury, Staffs.—B.C. recommended to approve plan for 24 garages on land between William Green Road and the river.

B.C. recommended to approve plans for the rebuilding with alterations of offices, canteen, showers, caretaker's flat and stores at Smith Road for Associated Electrical Industries, Ltd., 33 Grosvenor Place, London, S.W.1; erection of toilets, X-ray rooms and laboratories at Bridge Street for Bridge Foundry Co., Ltd.

Wellingborough, Northants. — Whitworth Holdings, Ltd., Little Irchester, are seeking planning permission for industrial development in Higham Road.

Westminster. — L.C.C. approved a scheme prepared by F. G. Broadbent and Partners, 13 Manchester Square, London, W.1, for completion of the assembly hall block and adaptations at Westminster Technical College. Estimated cost £80,500.

Wigan, Lancs.—B.C. have approved the erection of a new fire station in France Street. Estimated cost £92,529.

Willesden, Middx.—B.C. recommended to submit to C.C. for approval scheme for the erection of 28 garages and two shops included in blocks P and O of the South Kilburn redevelopment scheme.

Woking, Surrey.—Standing Joint Committee recommended to include in the 1961-62 programme, scheme for adaptation of Section House to provide common room, shower baths, etc., at Woking Police Station. Estimated cost £2,000.

Wolverhampton, Staffs.—B.C. have approved, subject to M.E. approval, plans for replacement of stores and mess room at Race Course playing fields, modernisation of housecraft department at Whitmore Secondary School, erection of an extension to the heat engines laboratory at Wolverhampton and Staffordshire College of Technology and extensions to Wolverhampton Girls' High School. Estimated cost £2,000, £2,500, £2,700 and £24,101 respectively.

Wolverhampton, Staffs. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for conversion of photographic department to provide X-ray and dark room accommodation at Royal Hospital. Estimated cost £6,750.

Woolwich.—L.C.C. approved a scheme for adaptations at Haimo Primary School. Estimated cost £10,820.

The Governors of Colfe's Grammar School propose the erection of a new building to accommodate 600 boys, comprising a three-storey teaching block and a two-storey administrative block with assembly hall and gymnasium. Estimated cost £256,734.

Worcester.—Birmingham Regional Hospital Board recommended to approve, in principle, schemes for improvements to the nurses' home and provision of sanitary annexes to wards M1 and M2 at Powick Hospital, estimated cost £9,370 and £21,100, respectively; construction of autoclave room at the Royal Infirmary, £950; rebuilding a collapsed embankment wall at 102-104 Bath Road, £2,500; include in capital programme scheme for new casualty department with stores and offices for H.M.C.'s finance department on site behind existing boiler house at the Royal Infirmary, £120,000.

DEMOLITION

Dudley, Worcs.—Ministry have approved the demolition of approximately 500 buildings in the Old Dock area for slum clearance purposes, for B.C. Estimated cost £270,000.

Exeter. — City Council recommended to apply for sanction to borrow £1,900, £1,500 and £2,000 respectively for the demolition of further properties in the Jubilee Street, Quay Lane and Prospect Place and Ware's Buildings areas.

Keighley, Yorks.—West Riding C.C. recommended to approve expenditure of £950 for demolition of 12 derelict cottages on the site of the proposed new divisional headquarters fire station and erecting a brick wall to protect the gable end of adjoining property.

ELECTRICAL

Barnsley, Yorks.—B.C. recommended to approve the installation of a power operated service lift. Estimated cost £1,350.

Stafford. — Birmingham Regional Hospital Board recommended to approve, in principle, scheme for provision of an H.T. sub-station and renewal of the electricity distribution system at Staffordshire General Infirmary. Estimated cost £16,000.

Stoke - on - Trent, Staffs. — Birmingham Regional Hospital Board recommended to approve, in principle, schemes for provision of new electricity distribution system at North Staffordshire Royal Infirmary and re-siting of sub-station and renewal of internal electric mains system at City General Hospital. Estimated cost £24,500 and £28,000, respectively.

FENCING

Stoke Newington.—M.W.B. to invite tenders from selected contractors for the erection of prestressed concrete pallisade fencing between Woodberry Down estate and land on the west side of the New River. Estimated cost £11,500.

GAS AND WATER SUPPLY

Bourne, Lincs.—U.D.C. to apply for sanction to borrow £1,077 for the extension of the Stanley Street water main.

Durham.—County Water Board to apply to Ministry for approval to lay additional water mains, estimated cost £63,000; to approve the laying of 5,700yd. of water main for interconnecting the Trimdon and Quarrington Hill water supplies, £22,000; to approve the electrification of Waskerley filtration plant, £9,750.

Edinburgh. — R. H. Cuthberson and Associates, 13 Eglington Crescent, Edinburgh, 12, are the consulting engineers for the construction of a reservoir on the Fruid Water for City Council. Work is due to start in 1962. Estimated cost £1,300,000.

Galashiels, Selkirks.—B.C. have approved a scheme for a new storage reservoir, filter plant and ancillary equipment. Estimated cost £400,000.

Glendale, Northumb.—R.D.C.'s consulting engineers, Waterhouse and Rounthwaite, 165 Westmorland Road, Newcastle upon Tyne, are to prepare plans for another stage of the Council's regional water supply scheme. Estimated cost £26,500.

Southampton.—B.C. recommended to apply for sanction to borrow £50,000 for extensions of water mains.

Stroud, Glos.—District Water Board have approved scheme for covering in and raising four feet higher, two open reservoirs at Minchinhampton Common. Estimated cost £47,750.

Waterford, Eire. — City Council propose to construct a 600ft. long, 50ft. high, dam on the River Dawn at Ballyshunnock. Estimated cost £125,000.

Wolverhampton, Staffs.—B.C. have approved the re-laying of the water main in Shifnal Road between the old pumping station, Bridgnorth, and Pendlestone Mills. Estimated cost £1,225.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Lothingland, Suffolk.—R.D.C. to submit to Ministry for approval, sea defence scheme for Kessingland. Estimated cost £26,300.

Ryde, I. of W.—B.C. to submit to Ministry for approval revised plans for replacing and reconstructing part of the sea wall on the North Walk between the Cornwall Street slipway to Sandy slipway, and the construction of a large curved groyne at a point midway between the two. Estimated cost £20,600.

HEATING AND VENTILATING

Birmingham. — Regional Hospital Board recommended to approve, in principle, schemes for enlarging the main heating duct at Selly Oak Hospital and conversion of existing boilers at Yardley Green Hospital. Estimated cost £2,700 and £9,700, respectively.

Nuneaton, War. — Birmingham Regional Hospital Board recommended to approve, in principle, stage I of phase 2 of renewal of engineering services, comprising the replacement of calorifiers, at George Eliot Hospital. Estimated cost £12,000.

Preston, Lancs. — Manchester Regional Hospital Board Buildings and Works Committee have approved, in principle, scheme for improvements to engineering services at Whittingham Hospital, near Preston. Working drawings and bills of quantities to be prepared with a view to work being undertaken under the current year's plant replacement programme.

HOUSING SCHEMES

Aldershot, Hants. — Borough Surveyor to prepare plans for 24 houses in North Town clearance area, two old people's dwellings at Kingsway, and 10 houses at Mount Pleasant Road.

Barrow-upon-Soar, Leics. — R.D.C. and County Planning Committee have approved in principle, plans for major housing development at Newtown Linford, for S. G. Mayson, 4 Castleton Road, Wigston. L. C. Allen, White House, Wanlip, Leicester, is the architect.

Batley, Yorks. — B.C. have approved layout plan for erection of 38 maisonnettes and 30 flats as the first stage of the Batley Carr redevelopment scheme.

Bingley, Yorks.—U.D.C. to consider the erection of a 10-storey block of flats in Chapel Lane area.

Boldon, Dur. — Gordon Durham and Co., Ltd., Moor Lane, are to erect 50 houses at the rear of Sunniside Terrace, Cleadon; L. W. Evans and Co., 18 Norfolk Street, Sunderland, are seeking permission to erect houses at The Close, Whitburn.

Bromsgrove, Worcs.—Birmingham Regional Hospital Board recommended to approve, in principle, scheme for staff flats at Barnsley Hall Hospital. Estimated cost £8,150.

Consett, Dur. — W. B. Millhouse, Ltd., Hartington Street, are seeking permission to erect houses in Medomsley Road, to plans by Eltringham and Lowes, Derwent Street, Blackhill.

Croydon, Surrey.—B.C. recommended to approve demolition of existing house and erection of houses, flats and maisonnettes at 27 Beulah Hill.

B.C. recommended to approve outline planning application for erection of 34 maisonnettes, 17 flats and 47 garages at 604 Mitcham Road, for A. J. Wait and Co., Ltd., Wellington Crescent, New Malden; subject to conditions, plans for 24 houses with garages, 12 flats and 12 garages on site at Knighton Hotel, Pampisford Road, for Wellwood Estates, Ltd., 2 Sloane Gardens, London, S.W.1; 30 flats and garages and parking space at Downe Cottage and The Windles, Violet Lane, for A. Grossman, 2 Tenby Mansions, Brent Street, London, N.W.14.

Daventry, Northants. — B.C. recommended to approve in principle, layout plans for 100 houses at the rear of Wordsworth Road.

Dodworth, Yorks.—West Riding C.C. recommended to approve scheme submitted by the U.D.C. for erection of 24 bungalows for the aged in Cliffe Crescent and Collins Close.

Doncaster, Yorks.—R.D.C. have approved the erection of 46 houses in Holly Bush Lane, Kirk Sandall. Estimated cost £62,175.

Dover, Kent. — B.C. recommended to approve for inclusion in the 1961-62 programme schemes for six flats at Herbert Street. Estimated cost £10,500 and 37 dwellings at Lancaster Road, £88,000.

Durham.—Revised plans have been approved for the erection of 48 houses at The Sands for R. E. Coleman, Ltd., High Street, Carrville.

William Leech, Ltd., St. James Street, Newcastle upon Tyne, are to erect 155 houses at Framwellgate Moor, and plans have been approved.

Farnham, Surrey.—U.D.C. have approved plans for the erection of 67 detached houses, 15 terraced houses, four two-storey shops and 19 garages at the Hale laundry site, Upper Hale Road, for the Gable Construction Co., Ltd., Great Oaks, Winterhill Farm, Guildford.

Gateshead, Dur. — Borough Engineer to prepare sketch plans for the erection of three-storey maisonnettes, old people's bungalows, and flatlets at Ebchester Avenue.

Glasgow. — Planning Committee have approved the erection of 24 dwellings at Galloway Street-Cairn Street, and 12 at East Keppoch extension for Housing Department.

Greenock, Renfrews.—B.C. have approved in principle plans to redevelop the Belville Street-St. Lawrence Street area including nine blocks of multi-storey flats (two of 21 storeys). Estimated cost £2m. Work is expected to start in about a year.

Frank Burnet and Boston, 180 Hope Street, Glasgow, C.3, are the architects, and Donald Smith, Seymour and Rooley, 204 West Regent Street, Glasgow, C.2, the consulting engineers for the proposed Greenock Academy for Co. E.C. Estimated cost £500,000.

Guildford, Surrey.—B.C. have submitted to Ministry for approval outline planning appications for erection of two 11-storey blocks of 40 one-bedroom Council flats and four penthouses each at The Mount and Bishops Croft, Mount Pleasant.

Higham, Kent.—Ministry have approved, subject to conditions, scheme for the erection of dwellings at Norah Lane for the Master, Fellows and Scholars of St. John's College, Cambridge.

Horbury, Yorks.—West Riding C.C. recommended to approve scheme submitted by the U.D.C. for erection of 24 bungalows for the aged in Clifton Road and Clifton Close.

Hoyland Nether, Yorks.—West Riding C.C. recommended to approve scheme submitted by the U.D.C. for the erection of the following for the aged: Thirty-five bungalows in Hill Crest Road, Greno View Road, and Skiers View Road; a further 38 bungalows in Hill Crest Road and Greno View Road; 38 bungalows at Royston Hill; 27 bungalows in Manor Way, Barber Street and Manor Close; 20 bungalows in Greenfield Road on the Greenfield estate; 30 bungalows in Milton Crescent, Wentworth View and Millhouses Street on the Milton estate; 20 bungalows in Church Street, Zetland Road and Wood View on the Church Street estate; 26 bungalows in Grey Street, Zetland Road and Cobcar Lane on the Gray Street estate.

Islington. — B.C. recommended to appoint Messrs. E. C. P. Monson, 120 Moorgate, London, E.C.2, as the architects, and Oswald E. Parratt and Partners, Adelaide House, London Bridge, London, E.C.4, as the quantity surveyors for the following schemes: Housing development on the clearance area at 6-32 Monsell Road; housing development at the Courtney Court (first extension) site; 18 dwellings at 344-346 Camden Road; and dwellings at the area of the junction of Newington Green Road with Mildmay Street and Mildmay Avenue.

Kingston-upon-Thames, Surrey. — Ministry have approved scheme for five 8-storey blocks of flats with parking spaces for 100 cars at Albany Park Road, for George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6.

Leeds. — City Council considering the Moorville redevelopment—an area of 3.39 acres bounded by Lady Pitt Lane, Folly Lane and Moorville Place, off Beeston Road. The proposed development is for three four-storey maisonnette blocks and 19 two-storey terrace houses with 52 garages for the 73 dwellings.

Melton and Belvoir, Leics.—R.D.C. propose the erection of 70 dwellings at seven sites during this year.

Mirfield, Yorks.—West Riding C.C. recommended to approve scheme submitted by the U.D.C. for erection of 16 flats for the aged on London Park estate.

Newry, Down. — U.D.C. have approved, in principle, layout plans for a new housing estate of 442 dwellings at Derrybeg, on the Camlough road. Estimated cost £547,000.

Normanton, Yorks. — West Riding C.C. recommended to approve scheme submitted by U.D.C. for erection of 26 flatlets for the aged at Woodhouse Court, Alexandra Drive.

North Walsham, Norfolk.—U.D.C. recommended to approve the erection of two blocks of four flats on land near Millfield Recreation Ground and 16 at junction of Bradfield Road and Cromer Road.

Nuneaton, War.—B.C. recommended to invite tenders for a three-storey block of six flats at Midland Road/Manor Court Road; prepare plans for a three-storey block of six flats at Freer Street.

Town Planning Committee have approved outline plans for the erection of gas governor house at St. Nicholas Park Drive, off Higham Lane, for West Midlands Gas Board.

Rickmansworth, Herts. — R.D.C. have prepared plans for the redevelopment of the prefabricated estate off Baldwins Lane, Croxley Green, by the erection of 24 four-storey maisonnettes, 66 three-storey flats, 12 two-storey houses, 20 two-storey flats, and 77 garages.

Rutherglen, Lanarks.—Dean of Guild Court have approved plans for 92 dwellings to be erected on housing schemes at Fernhill and Blairbeth for B.C. Estimated cost £152,000.

Stanley, Yorks.—West Riding C.C. recommended to approve scheme submitted by the U.D.C. for erection of 24 flats at Wrenthorpe and 16 bungalows in Westfield Crescent, Kirkham Gate, for the aged.

Stourbridge, Worcs.—Town Planning Committee have approved, subject to conditions, outline application for 30 flats in two three-storey blocks at College Road for Annol Builders, Ltd., 300 Slade Road, Birmingham, 23.

Strood, Kent.—R.D.C. have approved sketch layout plan for the erection of 42 units of accommodation and four shops.

Sutton and Cheam, Surrey.—Ministry have granted planning permission for 192 flats and maisonnettes in three eight-storey and six three-storey blocks, and 192 garages on sites at 112-136 Brighton Road, for George Wimpey and Co., Ltd., 26 Hammersmith Grove, London, W.6.

Thedwastre, Suffolk.—R.D.C. have approved the 1961 housing programme comprising the erection of 46 bungalows in seven villages.

Thetford, Norfolk.—B.C. recommended to prepare working drawings, etc., for the erection of 122 houses of five different types, 41 garages and roads, sewers, water mains and street lighting at Barnham Cross Common area. Estimated cost £272,332.

Twickenham, Middx.—W. J. Harston and Son, Ltd., Stephendale Road, Fulham, London, S.W.6, have submitted to Town Planning Committee for approval scheme for an 8-storey block of flats on site of Gifford Lodge at the junction of Pope Avenue and The Green.

Tynemouth, Northumb.—S. Storer, Reed Street, North Shields, proposes shop and two flats at the corner of Balmoral Gardens and Walton Avenue; general approval has been given to plans for the erection of a 10-storey block of flats at East Street for Cussins, Ltd. The architects are Cotton, Ballard and Blow, 48 Pilgrim Street, Newcastle upon Tyne.

Wakefield, Yorks.—West Riding C.C. recommended to approve scheme submitted by R.D.C. for erection of the following for the aged: Twenty-nine units at Sharlston estate; 42 units at Crigglestone estate; 29 units on the Sharlston estate; and 40 units on the Crigglestone estate.

Walthamstow, Essex.—B.C. recommended to approve amended scheme for the redevelopment of the land on the south-west corner of Forest Road and Wood Street by the erection of six shops, with 16 one-bedroom flats and two two-bedroom flats in three stories over a block of 24 two-bedroom maisonnettes and two one-bedroom flats in seven stories, and 45 garages.

Walton and Weybridge, Surrey. — U.D.C. have approved plans prepared by Sir John Burnet, Tait and Partners, architects, 10 Bedford Square, London, W.C.1, for the redevelopment of the town centre comprising the erection of a block of flats 10 storeys high, a six-storey building containing multiple shops, and the construction of an underground car park.

PLANT AND MECHANICAL TRANSPORT

Fleetwood, Lancs. — B.C. recommended to approve in principle, the purchase of an additional Dennis side-loading vehicle. Estimated cost £2,000.

PLAYING FIELDS, PARKS, ETC.

Basildon, Essex.—U.D.C. have approved for inclusion in the 1961-62 estimates scheme for improvements, etc., at Lake Meadows Recreation Ground, Billericay. Estimated cost £19,400.

Brighton, Sussex. — B.C. recommended to proceed with the layout of gardens at three nursery houses at Major Close, Hollingdean, Kenilworth Close, Lower Bevendean, and Cowley Drive, South Woodingdean. Estimated cost £1,000.

Easthampstead, Berks. — R.D.C. recommended to approve for inclusion in 1961-62 programme scheme for the provision of the first stage of the Bracknell Sports Centre. Estimated cost £37,940.

Finsbury.—L.C.C. approved the provision of additional play space and other improvements at Sir Philip Magnus Secondary School. Estimated cost £15,610.

Harlow, Essex. — U.D.C. have approved, in principle, scheme for the provision of a cycle race track. Estimated cost £64,820.

Heston and Isleworth, Middx. — B.C. recommended to include in the 1961-62 programme scheme for the first stage of the extension to Lampton Park, in respect of fencing and levelling the land. Estimated cost £23,000.

Tottenham, Middx. — B.C. are considering the provision of a proposed children's playground at Bennets Close estate.

Walthamstow, Essex.—B.C. recommended to approve, in principle, plans for the reinstatement of Highams Estate as a natural park.

Whiston, Lancs.—R.D.C. preparing scheme for development of more than 68 acres of land at Whiston, Rainhill and Halewood into playing fields and sport pitches.

RIVER AND FLOOD PREVENTION WORKS

Exeter.—City Council recommended to approve scheme for the construction of a 9in. thick block concrete wall along the railway from Cowley Bridge to St. David's Station to prevent flooding in King Edward Street. Estimated cost £2,500.

Exmouth, Devon.—U.D.C. have approved, in principle, scheme prepared by Howard Humphreys and Sons, consulting engineers, 8 Francis Street, Westminster, London, S.W.1, for the prevention of flooding at Exmouth by a major reconstruction of Withycombe Brook at its lower reaches and the rebuilding of six road bridges. Estimated cost £250,000.

Little Eaton, Derbys. — Trent River Board propose scheme for the improvement of the Bottle Brook. Estimated cost £18,416.

Somerset. — Langport District Drainage Board recommended to approve, subject to Ministry approval, outline scheme for the draining of Hams, Huish Episcopi, for the Somerset River Board.

ROADS, BRIDGES AND SITE WORKS

Bexley, Kent.—B.C. to invite tenders from selected contractors for the surfacing of trenches excavated in connection with the laying of the surface water sewer at Upper Wickham Lane and High Street, Welling; have approved the inclusion in the 1961-62 programme, of scheme for the provision of a footpath at Lodge Hill. Estimated cost £2,070.

Birmingham. — Regional Hospital Board recommended to approve, in principle, schemes for the provision of roads and drainage for long stay annexe and admission and out-patients' department at Rubery Hill and Hollymoor Hospitals, estimated cost £20,550; road works at Selly Oak Hospital, £1,050.

Blackpool, Lancs. — B.C. plans to rebuild and completely modernise the 85ft. high promenade frontage of the Blackpool Tower buildings.

Bognor Regis, Sussex.—U.D.C. propose the extension of the coach park at London Road. Estimated cost £5,500.

Bridlington, Yorks.—Subject to M.T. and the East Riding C.C. approval, John Dossor and Associates, 8a Monkgate, York, are to be appointed consulting engineers for the preparation of the scheme for the replacement of the Flamborough Road railway bridge with a wider bridge.

Brighton, Sussex.—B.C. recommended to invite tenders for the construction of roads and sewers and the provision of street lighting at section one of Whitehawk housing estate, estimated cost £30,200; negotiate a tender with Carlton Contractors, Ltd., 120 Pall Mall, London, S.W.1, for the construction of roads for 59 old persons' flats at Coldean Lane/Lewes Road, £1,800.

Chester. — City Council recommended to approve plans for making-up of Brassey Street; approve in principle outline plans for the improvement of roads in the vicinity of Hoole Lane and Station View including a road from opposite Lightfoot Street to Hoole Lane.

Chislehurst and Sidcup, Kent. — U.D.C. recommended to approve scheme for the making-up of part of Powerscroft Road, Foots Cray. Estimated cost £10,900.

Ealing, Middx.—B.C. recommended to approve in principle the provision of a single deck car park for 210 cars on the northern railway embankment, between Springbridge Road and Longfield Avenue. Estimated cost £36,750.

Exeter. — City Council recommended to apply for sanction to borrow £7,330 for the construction of a service road, footpath, car park and ancillary works at rear of Paris Street.

Great Yarmouth, Norfolk. — Ministry have approved the construction of a new main road across Fuller's Hill at Yarmouth to link Acle New Road and the seafront, for B.C.

Leicester.—City Council propose scheme for the widening of Abbey Street by building an additional carriageway between the Central Ring Road and Lower Garden Street.

Nuneaton, War.—B.C. recommended to submit to M.T. for approval, scheme for the provision of a traffic island at the junction of Vicarage Street and Leicester Road.

St. Ives, Corn.—B.C. to apply for sanction to borrow £9,579 for the construction of a car park at Trenwith.

Sevenoaks, Kent.—R.D.C. recommended to approve the provision of a car park at Stangrove Park, Edenbridge. Estimated cost £2,300.

Southampton. — B.C. recommended to approve scheme for constructing a short length of dual carriageway from Kathleen Road towards Bitterne. Estimated cost £9,000.

Staines, Middx.—C.C. recommended to approve, subject to M.T. approval, scheme for improvements at the junction of Poyle Road, Horton Road and Moor Lane. Estimated cost £21,150.

Tottenham, Middx.—B.C. recommended to approve the construction of a car park at Weir Hall Close. Estimated cost £4,000.

Uxbridge, Middx. — C.C. recommended to approve, subject to M.T. approval, scheme for the widening of Cowley Road (part) and improvement of Cowley Mill Road (part). Estimated cost £24,950 and £27,600, respectively.

Walton and Weybridge, Surrey. — U.D.C. have submitted the following schemes to C.C. for approval: improvement of Queen's Road at junction with Sir Richard's Bridge, Walton; improvement of Seven Hills Road at junction with Queen's Road, Weybridge; widening of footways between West Grove and Primrose Road, Hersham; and widening of Hersham Road between Felcott Road and Falmouth Road, Walton.

M.T. have approved scheme for the extension of Church Street to New Zealand Avenue.

Walthamstow, Essex. — B.C. recommended to proceed with scheme for the provision of additional parking space, cycle parking facilities and perambulator stores in Town Hall grounds.

Wembley, Middx. — C.C. recommended to approve construction of a service road extension at Park Lane. Estimated cost £2,000.

West Riding.—C.C. to widen and reconstruct part of Street Lane, Gildersome. Estimated cost £1,907.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bexley, Kent.—B.C. to prepare scheme for the widening and surface water drainage of Longleigh Lane, between Hadlow Road and Lodge Hill and for the surface water drainage of Lodge Hill between Denton Road and Longleigh Lane.

Blackpool, Lancs.—B.C. have approved in principle a £2,324,300 drainage plan to cover 1,360 acres of the central area. It provides for the reconstruction of the Manchester Square pumping station (£553,800), a central interception sewer (£639,500), a Central Drive trunk sewer (£581,000) and a Lytham Road sewer (£550,000), including the improvement of the Harrowside pumping station, and other alterations in the Harrowside area.

Braintree, Essex.—R.D.C. have approved, in principle, for submission to Ministry for approval sewerage scheme to serve Coggeshall and Kelvedon. Estimated cost £187,500.

Dungannon, Tyrone. — Ministry have approved a loan of £20,000 for the provision of a sewerage system at Caledon for R.D.C.

Hadleigh, Suffolk.—U.D.C. have approved sewage works extension scheme. Estimated cost £69,000.

Melford, Suffolk.—Ministry have authorised R.D.C. to invite tenders for the Cornard sewerage scheme.

Newtown and Llanidloes, Monts. — R.D.C. have completed detailed drawings for the new sewage disposal works at Bettws.

North Lonsdale, Lancs.—R.D.C. to spend £1,200 on the sewerage and sewage disposal scheme for Bouth.

Nuneaton, War.—B.C. recommended to invite tenders for the provision of a 10in. duplicate pumping main from Weddington pumping station to St. Mary's Road pumping station. Estimated cost £7,450.

Stokesley, Yorks. — R.D.C. considering £65,000 sewerage scheme for the Marton and Nunthorpe areas.

Sutton and Cheam, Surrey. — Brian Colquhoun and Partners, 18 Grosvenor Street, London, W.1, are the consulting engineers for the mechanical and electrical equipment for stage 3 of the reconstruction of Worcester Park sewage disposal works, for B.C.

B.C. recommended to approve scheme for erection of suitable sheds and ancillary works at the Refuse Transfer Station, Oldfields Road, Sutton, and the installation of two Hindle Senior baling presses. Estimated cost £5,000, including the purchase of equipment.

Wellingborough, Northants.—U.D.C. recommended to approve for inclusion in the 1961-62 estimates the Finedon trunk sewerage scheme. Estimated cost £198,000.

Whitstable, Kent.—U.D.C. have approved scheme for the enlargement of the culvert to a 27in. pipe to improve drainage facilities in the Borstal Hill area. Estimated cost £2,000.

Woodbridge, Suffolk.—Ministry have held an inquiry into U.D.C.'s application to borrow £143,500 for construction of sewerage and sewage disposal works.

STREET LIGHTING

Bexley, Kent. — B.C. to prepare detailed plans for the completion of the comprehensive street lighting modernisation scheme for the installation of sodium vapour discharge street lighting in the roads of the borough..

Birmingham. — Regional Hospital Board recommended to approve, in principle, scheme for additions and improvements to roadway lighting and rewiring of chapel, etc., at Hollymoor Hospital. Estimated cost £7,500.

Bridlington, Yorks.—B.C. recommended to include in the draft estimates £11,700 for street lighting.

Croydon, Surrey.—B.C. recommended to apply for sanction to borrow £82,000 for sixth stage of programme for improving street lighting throughout the Borough.

Hornsea, Yorks.—U.D.C. have approved, in principle, scheme for new lighting in various main streets.

Liverpool. — City Council recommended to approve plans for converting the remaining gas lamps to electricity. Estimated cost £9,500.

Southampton.—B.C. recommended to apply for sanction to borrow £10,087 for street lighting improvement schemes for areas bounded by The Avenue, Westwood Road, Portswood Road, Highfield Lane, and Hill Lane, Howard Road, Darwin Road.

Swaffham, Norfolk. — U.D.C. to prepare detailed scheme for improvements to street lighting in the shopping area. Estimated cost £3,000.

Wakefield, Yorks.—West Riding C.C. to spend £7,745 on renewing the electric wiring and installing fluorescent lighting in a number of outside properties including the County Medical Building.

Whiston, Lancs. — R.D.C. have approved scheme to improve the street lighting along the three-mile stretch of Knowsley Lane, Knowsley. Estimated cost £6,000.

CONTRACTS

*Full details of the Contracts marked * will be found in our Advertisement Columns.*

BUILDING AND DECORATING

(See also Housing Schemes)

Aylesbury, Bucks.—External painting to houses in the following villages for R.D.C.: Aston Clinton, Bierton Brill, Cuddington, Haddenham, Long Crendon, Stoke Mandeville, Stone, Quainton, Upper Winchendon, Waddesdon, Weston Turville. Documents from T. J. Ridley, architect, of Raymond White and Ridley, chartered architects, 4 Temple Square, Aylesbury. Tenders by Feb. 13.

Aylesbury, Bucks.—New offices at Walton Street for R.D.C. The work comprises the following: Office block and Council Chamber in two storeys—15,500 sq. ft., caretaker's cottage, car port and site works. Applications to Raymond White and Ridley, chartered architects, 4 Temple Square, Aylesbury, by Feb. 8. Deposit £5, payable to R.D.C. Tenders by Mar. 7.

Aylesbury, Bucks.—Hot water installations and internal plumbing, and in some cases minor structural alteration, to pre-war houses as under, for R.D.C.: Station Road, Quainton (six houses); Station Road, Stoke Mandeville (20); Lower Road, Stoke Mandeville (eight); Bishopstone Road and Bittenham Close, Stone (14); Great Lane, Bierton (five); Wharf Road, Buckland (eight); Halton Lane, Halton (six); Sheriff Cottages, Waddesdon (eight); Worlds End Lane, Weston Turville (10). Separate contracts will be entered into in respect of each of the above schemes. Documents from T. J. Ridley, of Raymond White and Ridley, chartered architects, 4 Temple Square, Aylesbury. Deposit £3, payable to R.D.C. Tenders by Feb. 14.

Batley, Yorks.—Internal decoration of the borough treasurer's department for B.C. Documents from the Borough Engineer, West House, Hanover Street, Batley. Tenders by Feb. 8.

Bellarena, Londonderry.—Construction and completion of R.U.C. standard sub-station, type 1, at Limavady-Downhill Road, Bellarena, for Ministry of Finance. Should running sand be encountered on this site, work certified will be paid for on a daywork basis and the amount of the contract adjusted accordingly. Documents from Room 103, Law Courts Building, Belfast, 1. Deposit £5. Plans also seen at R.U.C. Station, Bellarena. Tenders by Feb. 27.

Birkenhead, Ches.—Erection of a depot at Woodchurch estate for B.C. Documents from the Borough Architect, 3 Conway Street, Birkenhead. Deposit £2 2s. Tenders by Feb. 14.

Birmingham.—Provision of showers, lavatories and changing rooms at the existing works of the Salvage Department situated at Montague Street, Bordesley, for City Council. Documents from the General Manager, Salvage Department, Civic Centre, Broad Street, Birmingham, 1.

Birmingham.—Improvements to farm buildings at holding 110, Springhill Farm, Camp Road, Canwell, Sutton Coldfield, for City Council. Documents from P. K. Tooke, land agent to the Corporation, The Estate Office, Canwell, Sutton Coldfield. Deposit £2 2s. (cheques payable to P. K. Tooke). Tenders by Feb. 10.

Blackburn, Lancs.—Extensions and alterations to Belper Street baths for B.C. Applications to the Borough Engineer, Town Hall, Blackburn, by Feb. 6. Deposit £2 2s.

Blofield and Flegg, Norfolk.—Improvements to be carried out to 16 houses at Martham and eight at Repps for R.D.C. Documents from the department of the Engineer and Surveyor, Council Offices, Acle, Norwich, NOR 612. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by Feb. 13.

Bromsgrove, Worcs. — Alterations at the Cattle Market, Market Street, for U.D.C. The work involves general alterations to entrance gates, new brick walls, together with all ancillary works. Documents from the Engineer and Surveyor, Council House, Bromsgrove. Tenders by Feb. 24.

Cardiff.—Supply and erection of structural steelwork for the reconstruction of Canton Police Station, Cowbridge Road, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s. (cheques payable to Corporation). Tenders by Feb. 13.

Cardiff.—Demolition of the existing police station and public convenience in Cowbridge Road, Canton, and the erection on the cleared site of a new sub-divisional police station of traditional construction for City Council. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s. (cheques payable to Corporation). Tenders by Feb. 21.

Cardiganshire.—Erection of a new primary school at Aberaeron for C.C. Documents from the County Architect, County Hall, Aberaeron. Deposit £2 2s. Tenders by Feb. 28.

Carmarthenshire.—Erection of the first instalment of a new infants' school at Walter Road, Ammanford, for Co. E.C. Applications to W. T. Lloyd, county architect, County Hall, Carmarthen, before Feb. 4. Deposit £3 3s. Tenders by Mar. 7.

Chapel-en-le-Frith, Derbys.—Construction of bus shelters of traditional materials at Little Hayfield and Castleton, and the conversion of a barn to a bus shelter at Buxworth, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Hayfield Road, Chapel-en-le-Frith, via Stockport. Deposit £2 2s. Tenders by Feb. 18.

Chatham, Kent.—Erection of bathrooms, modernisation, general repairs and redecoration of two houses in Maida Road for B.C. Documents from J. A. T. Richards, borough engineer and surveyor, Town Hall, Chatham. Deposit £2 2s. Tenders by Feb. 17.

Cheltenham, Glos. — Improvement and alterations to 15 cottages at Aston Cross for R.D.C. The work consists of provision of bathrooms, hot water systems, w.c.s, etc., and alterations to the drainage system. Documents from the Surveyor, 20 Imperial Square, Cheltenham. Tenders by Feb. 15.

Cheshire.—Erection of new dining rooms and kitchens at Helesby County Grammar School (approximate value £65,500) for C.C. Documents from Edgar Taberner, county architect, County Hall, Chester. Deposit £2 2s., payable to C.C. Tenders by Feb. 28.

Chipping Norton, Oxon. — Painting of 354 dwellings in the following parishes for R.D.C.: Ascott-under-Wychwood, 14; Charlbury, 45; Fifield, and Idbury, 15; Kingham and Churchill, 39; Over Norton, 32; Rollright, 20; Finstock, 10; Leafield, 40; Shipton-under-Wychwood and Milton-under-Wychwood, 53; tackley, 20; Steeple Barton, 28; Hensington Without, 23; Stonesfield, 15. Contractors may tender for one or more sites. Documents from the Housing Supervisor, Council Offices, Hillside, Albion Street, Chipping Norton. Tenders by Feb. 20.

Cleethorpes, Lincs.—Re-covering the roof of the pier pavilion in sheet zinc for B.C. Documents from A. B. Cooper, borough engineer, Council House, Cleethorpes. Tenders by Feb. 13.

Coseley, Staffs.—Erection of a steel-framed structure to match the existing garage, approximate size 48ft. by 30ft., together with ancillary works, at Anchor Road garage workshop for U.D.C. Documents from Joseph C. Roper, clerk of the Council, Council House, Coseley. Deposit £2 2s. Tenders by Feb. 10.

Croydon, Surrey.—Conversion of two classrooms into a kitchen and dining-room at the Duppas Primary School, Goodwin Road, Waddon, for B.C. Documents from the Chief Education Officer, 19 Katharine Street, Croydon. Tenders by Feb. 21.

Cumberland.—The whole of the work in connection with one or more of the following contracts for C.C.: (a) Erection of a clinic and library at Seascale; (b) erection of a rural police station at St. Bees; (c) alterations and extensions to Oulton C. of E. School, near Wigton. Documents from D. W. Dickenson, county architect, 15 Portland Square, Carlisle. Tenders by Mar. 7 for (a), Mar. 2 for (b), Mar. 15 for (c).

Cumberland. — External painting of police premises in the following areas for C.C.: Allenby, Aspatria, Brampton, Carlisle, Cleator Moor, Egremont, Keswick, Maryport, Millom, Port Carlisle, Penrith, Silloth, Whitehaven and Workington. Documents from D. W. Dickenson, county architect, 15 Portland Square, Carlisle. Tenders by Feb. 27.

Deben, Suffolk.—External painting of following dwellings for R.D.C.: Eight, Eyke; 34, Kirton; eight, Levington; 24, Otley; 28, Trimley St. Martin; 25, Tunstall; 45, Wickham Market; 44, Witnesham. Documents from the Engineer and Surveyor, Melton Hill, Woodbridge Tenders by Feb. 13.

Doncaster, Yorks.—Painting of houses on various estates in small lots for B.C. Documents from the Housing Manager, 15 South Parade, Doncaster. Deposit £3. Tenders by Feb. 27.

Durham. — Following for C.C.: Annfield Plain Modern Schools—erection of additional accommodation; Elemore Hall Residential School—adaptations to cottages to form staff married quarters; Hetton-le-Hole County School—provision of internal sanitation for staff; Jarrow School Clinic— internal and external painting and decoration; Newton Aycliffe Maternity and Child Welfare—(a) electrical installation; Centre School Clinic and Branch Library—(b) heating installation, (c) vinyl tile flooring; Wingate New Secondary Modern School—(a) electrical installation, (b) heating and hot water installations, (c) structural steelwork, (d) precast concrete floor and roof units, (e) timber roof construction, (f) curtain walling. Applications to County Architect, South Street, Durham, by Feb. 8.

Edinburgh.—Following trades in connection with the proposed addition to Loanhead Hospital of a day room and services rooms at an estimated cost of £4,500 for Board of Management: (1) Mason and brick work; (2) joiner work; (3) plumber work; (4) plaster work; (5) painter work. Tenders are also invited for carrying out the above trades in one undertaking. Applications to Secretary, Edinburgh Royal Victoria and Associated Hospitals' Board of Management, Board's Office, City Hospital, Greenbank Drive, Edinburgh, 10.

Edinburgh.—Warriston Recreation Ground—proposed extension to sports pavilion (principally mason and brick work) for City Council. Applications to the City Architect, City Chambers, Edinburgh, by Feb. 8. Tenders by Feb. 27.

Ennerdale, Cumb. — External painting of houses as follows for R.D.C.: Group 1—Parton, Briscoe Crescent (28); 2—Lowca Easiform (70); 3—Distington, Kilnside and Church Road (16), Hill Crest (10); 4—Frizington, Moor Place prefabs. (50); 5—Cleator Moor, various properties (67). Documents from the Surveyor, Council Chambers, Cleator. Tenders by Feb. 15.

***Feltham, Middx.** — Repainting dwellings, etc., for U.D.C. Apply by Feb. 15.

Gipping, Suffolk.—Improvements to houses for R.D.C., including the construction of a sewage disposal plant to 10 Council houses at Ashfield-cum-Thorpe. Documents from the Engineer and Surveyor, Council Offices, Needham Market, Ipswich. Deposit £2 2s. Tenders by Feb. 18.

Grimsby, Lincs.—Following works required in the erection of the Grange Primary Infants' School, Cambridge Road, for Education Committee: (Contract a) General building contract, including foundations, boiler-house and superstructure, together with drainage, roads, paths, fencing and other ancillary works; (b) heating and hot water installations with oil-fired boiler plant; (c) electrical installation. Documents from the office of J. V. Oldfield, borough engineer and architect, Municipal Offices, Town Hall Square, Grimsby. Deposit £5 each. Tenders by Feb. 20.

Hailsham, Sussex. — Erection of a store and workshop together with covered yard space and concrete paving for R.D.C. Documents from the Surveyor, Cortlandt, Hailsham. Tenders by Feb. 27.

***Hambledon, Surrey.**—Public convenience—Cranleigh car park for R.D.C. Deposit £2 2s. Tenders by Mar. 6.

Harwich, Essex.—Applications are invited from building contractors to be placed on an approved list for minor capital works and maintenance at Harwich and District Hospital in the Colchester group. Application form from Group Secretary, 14 Pope's Lane, Colchester.

Herefordshire.—Erection of two-form entry secondary schools at Weobley and Wigmore, for C.C. The schools are identical in design and construction above damp course level, and the sites are about 14 miles apart. Contractors will be able to submit tenders for either or both. Applications to the County Architect, Bath Street, Hereford.

Herefordshire.—Erection of the following for C.C.: (a) Police sports pavilion on a site off Widemarsh Street; (b) alterations to form new kitchen at St. Martin's School, Hereford; (c) new school house and cloakroom block and provision of waterborne sanitation at Stoke Prior School, about two miles from Leominster. Documents from the County Architect, Bath Street, Hereford. Deposit £2 2s. each job.

Hertford.—(a) Repainting of 161 houses and 15 garages; and (b) external rendering of 20 houses for B.C. Experienced firms are invited to submit their names for inclusion in these lists, stating for which scheme they would like to be considered, to A. I. Clough, town clerk, The Castle, Hertford, by Feb. 7.

Hertfordshire.—C.C. invite applications for inclusion on their list of contractors for building and maintenance works, heating and electrical works, fencing works, etc. Tenders will normally be invited from a number of firms on the list but the County Council reserve the right to ask for other tenders. Application forms from the Clerk of the County Council, County Hall, Hertford. Contractors who have already applied for inclusion on the list need not apply again.

Hertfordshire. — A.5, north of Redbourn: Construction of 9in. brick wall, about 160yd. in length, maximum height 7ft., together with other incidental works for C.C. Documents from the office of the County Surveyor, County Hall, Hertford. Tenders by Feb. 15.

Hebburn-on-Tyne, Northumb. — Demolition and repair works to building at Hebburn-on-Tyne, for Tyne Improvement Commission. Documents from R. N. Eggleton, secretary, Tyne Improvement Commission, Bewick Street, Newcastle upon Tyne, 1. Tenders by Feb. 20.

Henley-on-Thames, Oxon. — Erection of a public convenience and drainage works at Station Road, for B.C. Documents from the Borough Surveyor, 33 Market Place, Henley-on-Thames. Tenders by Feb. 20.

Holland. — Erection of an old people's home (40 beds) in Grange Drive, off Halmergate, Spalding, for C.C. Documents from the County Architect, County Hall, Boston, Lincs. Tenders by Mar. 1.

Horsforth, Yorks.—External painting of 470 dwellings comprising houses, flats and maisonnettes, and five lock-up garages, for U.D.C. Documents from J. Marsden, engineer and surveyor, Council Offices, Manor Road, Horsforth. Tenders by Feb. 17.

Hull. — Erection of a home for elderly persons, Clough Road/Beverley Road, for Welfare Committee. Documents from the office of H. D. Priestman, chartered architect, 101 Spring Bank, Hull. Deposit £2, payable to Corporation. Tenders by Feb. 15.

Huntingdonshire. — Following for C.C.: Houghton C.P. School—Demolition of an existing brick and slated classroom block, erection of four classrooms and toilets in timber construction, and alterations to the existing scullery to form a kitchen in traditional construction. Tender documents available on or about March 1. Tenders to be received on or about March 22. Stilton V.C. School—First instalment of a four-class school of single-storey load-bearing brick construction. Tender documents available on or about Feb. 22. Tenders to be received on or about March 16. Firms should submit their names to S. M. Holloway, county architect, County Buildings, Huntingdon, by 12 noon, Feb. 13, stating the projects for which they wish to be considered.

Ilford, Essex.—Construction of a sports pavilion, South Park, for B.C. Applications in writing to the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. Tenders by Feb. 28.

***Ilford, Essex.**—Assembly hall and extension at Gearies Schools for B.C. Deposit £2 2s. Tenders by Feb. 28.

Inverness-shire. — Painter work in schools and other properties for C.C., in the Inverness, Aird, Barenoch, Lochaber, Skye and Outer Islands districts. Applications to the Superintendent of Works, The Castle, Inverness, by Feb. 15.

Inverness-shire.—Following works for C.C.: (a) Alterations and additions to Bernera J.S. School, Island of Harris, comprising concrete and brick, carpenter and joiner, plumber and drainage, plaster and cement and painter works; (b) provision of a timber hutted classroom at Carbost P. School, Island of Skye. Applications to the County Architect, The Castle, Inverness, by Feb. 15.

Isle of Ely.—Decorating work at schools and other premises during the coming year for C.C. Contractors should submit their names in writing to the County Architect, County Hall, March, by Feb. 4.

Isle of Wight. — Erection of an E.S.N. school off Shide Road, Newport (floor area approximately 10,500 super. ft.), for C.C. Applications to the County Architect, County Hall, Newport, by Feb. 10. Deposit £2 2s. Tenders by Mar. 22.

Knaresborough, Yorks. — Following for U.D.C.: External painting, 1960 programme—153 houses, 1961 programme—128 houses and 16 flats; internal decoration, Knaresborough House—hall, landing and staircase. Documents from the Surveyor, Knaresborough House, Knaresborough. Tenders by Feb. 8.

Lancashire.—Erection of new offices for the Youth Employment Bureau, floor area approximately 660 sq. ft., at Lugsdale Road, Widnes, for Co. E.C. Documents from the Borough Architect's Department, Brendan House, Widnes Road, Widnes. Tenders by Feb. 17.

Lancashire.—Following for C.C.: Builder's work in connection with the erection of a prefabricated timber building to form a youth centre at Worsley. The building will be supplied and erected by a nominated subcontractor already selected and the builder's work includes concrete raft and beam foundations, site works, drainage, services and finishes. Builder's work in connection with the installation of a lift, including construction of lift shaft and motor room, at the County Sessions House, Liverpool. Contract will also include alterations to rooms to form offices. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 6.

Lancaster. — Supply and laying of rubber flooring at Lancaster Moor Hospital, for the Hospital Management Committee. Documents from the Group Secretary, Lancaster Moor Hospital, Lancaster. Tenders by Feb. 10.

Leeds.—Renewal of built-up felt roofing at Iveson House C.P. School, Leeds, for City Council. Documents from Director of Works, Sweet Street, Leeds, 11. Deposit £2, cheques payable to Corporation. Tenders by Feb. 27.

Liskeard, Corn.—Exterior painting of 139 houses situated on the various sites, as under for R.D.C.: Duloe, 4; Killigarth, 4; Hendergulling, 4; Lansallos (Swedish timber), 2; Polruan, 18; Carneggan and Pont, 3; Horning Tops, 2; Menheniot Station, 4; Treburgie Water, 4; Dobwalls, 22; Pelynt, 16; Roscraddoc (Swedish timber), 2; St. Cleer, 8; Pensilva, 28; No-Man's-Land, 18. Documents from the Surveyor, Council Offices, Luxstowe House, Liskeard. Tenders by Feb. 9.

Liverpool.—Construction of new metalwork room and drawing office, Hillfoot Hey High School, Woolton, for City Council. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s. Tenders by Feb. 9.

Llanelly, Carms.—Erection of a ladies' and gents' unrinal at the Black Horse Square, Hendy, for R.D.C. Documents from the Architect and Surveyor's Office, 2 Queen Victoria Road, Llanelly. Deposit £1. Tenders by Feb. 7.

Luton, Beds. — Following for B.C.: (1) Provision of new lavatory accommodation, Norton Road School. Tenders by Feb. 15; (2) erection of two traditional-type changing rooms at Leagrave and Stockwood Parks. Tenders by March 2. Documents from Borough Architect, Town Hall, Luton.

Middleton, Lancs.—External painting of the Public Baths, Foundation Street, for B.C. Documents from the Borough Architect, Town Hall, Middleton. Tenders by Feb. 13.

Montgomery.—Construction of a stock lorry washing bay at the rear of the Council Offices, Arthur Street, for B.C. Documents from Edward J. Lloyd, clerk, County Offices, Montgomery. Tenders by Feb. 16.

Montgomery.—Reconstruction of the men's public conveniences at the Town Hall for B.C. Documents from Edward J. Lloyd, clerk, County Offices, Montgomery. Tenders by Feb. 16.

Newark-on-Trent, Notts. — External repainting of 509 houses (13 contracts of varying sizes) for B.C. Documents from Borough Surveyor, Municipal Buildings, Newark-on-Trent. Tenders by Feb. 10.

Newbury, Berks.—External repainting of 212 houses covered by four contracts for R.D.C. Documents from the Council Surveyor, Phoenix House, Newbury. Tenders by Feb. 16.

***Newcastle upon Tyne.**—Erection of cafe at Exhibition Park for City Council. Tenders by Feb. 14.

Northallerton, Yorks.—External painting of 39 houses at Manor Green, Romanby, for R.D.C. Documents from the Surveyor, The Old Vicarage, Northallerton. Tenders by Feb. 7.

Northamptonshire. — Erection of a small brick building, fencing and concrete paving at the Police V.H.F. Wireless Station, Old, for C.C. Applications to the County Architect, County Hall, Northampton, by Feb. 6.

Northern Ireland.—Patent tile flooring subcontract in 62 dwellings at Greenisland, for Housing Trust. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by Feb. 8.

Northern Ireland. — Construction of six garages at Dungannon (Drumcoo extension), for Housing Trust. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by Feb. 9.

Northern Ireland.—Following for Hospitals Authority; (a) Modifications to building to house electric generator plant—Lissue Hospital, Lisburn; (b) modification to building to house electric generator plant—Killowen Hospital, Lisburn. Documents from the Superintendent Engineer, Area Maintenance Department, Belfast Hospital Management Committee, Broadway. Tenders by Feb. 7.

North Riding.—Erection of an old people's home at Eston, for C.C. Applications to the County Architect, County Hall, Northallerton, before Feb. 4. Deposit £2 2s. Tenders by Mar. 6.

Northumberland.—Extension to administrative accommodation at Longbenton Somervyl County Primary School, Longbenton, for C.C. Applications to the County Architect, 30-32 Great North Road, Newcastle upon Tyne, by Feb. 6.

Nottingham.—Alterations to the St. Ann's Well Road slipper baths, for City Council. Documents from F. M. Little, city engineer and surveyor, Guildhall, Nottingham. Deposit £2. Tenders by Feb. 23.

Oldbury, Worcs.—Erection of a new gymnasium block at the Albright Secondary Modern School for B.C. Applications to borough surveyor, Municipal Bank Chambers, Birmingham Street, Oldbury, by Feb. 6. Deposit £2 2s. Tenders by Mar. 1.

Omagh, Tyrone. — Extensions and improvements to the Royal Arms Hotel, High Street, for D. Waterson. Documents from R. H. Beck, surveyor and planning consultant, 6 Market Street, Omagh. Deposit £5 5s. Tenders by Feb. 11.

Pembrokeshire.—Erection of the first phase of extensions to be carried out to Narberth Secondary School, for Co. E.C. First instalment will consist of four classrooms and two practical rooms, with stores, cloaks and lavatories, etc. The building will consist of a double-storey block together with certain surrounding site works. The general construction will be traditional with load bearing brickwork and columns, with a pitched roof. Applications giving proof that they are in a position to provide sufficient labour and staff in order to carry out this work in an expeditious and workmanlike manner to Walter Barrett, county architect, County Offices, Haverfordwest, before Feb. 13. Deposit £2 2s.

Pembrokeshire.—Erection of a new primary school at Broad Haven, near Haverfordwest, for Co. E.C. The building will be single-storey containing four classrooms, assembly hall, head's room, cloaks, etc., together with surrounding site works. The general construction will be traditional with load bearing brickwork and columns with pitched roof. Applications giving proof that they are in a position to provide sufficient labour and staff in order to carry out this work in an expeditious and workmanlike manner to Walter Barrett, county architect, County Offices, Haverfordwest, before Feb. 13. Deposit £2 2s.

Ruislip, Middx. — External and internal repainting and sundry repair work at the Breakspear Crematorium for Ruislip-Northwood and Uxbridge Crematorium Joint Committee. Documents from the offices of Harold E. G. Stripp, consultant surveyor, 263 High Street, Uxbridge. Tenders by Feb. 13.

Ross and Cromarty.—All trades or single trades for the several works involved in the provision of a day room at Coulregrein House, Stornoway, for C.C.: (1) Excavator, mason and brickwork; (2) carpenter and joiner; (3) plumber and drainage; (4) plaster; (5) painter and glazier; (6) electrical. Applications to Peter S. Leask, county architect, Tulloch Street, Dingwall, by Feb. 10.

Ross and Cromarty. — 78-84 Back Street, Alness. All trades or single trades for the several works involved in the reconstruction of the above premises to provide one two-apartment house, two three-apartment houses, and one four-apartment house for C.C.: (1) Excavator, mason and brick, etc., work; (2) carpenter and joiner; (3) plumber; (4) slater; (5) painter and glazier; (6) electrical; (7) site works. Applications to Peter S. Leask, county architect, Tulloch Street, Dingwall, by Feb. 10.

Seaton Valley, Northumb.—Roof repairs to 69 aluminium bungalows at Shiremoor and Seaton Delaval, for U.D.C. Documents from the Surveyor, Council Offices, Seaton Delaval. Tenders by Feb. 11.

Southend-on-Sea, Essex. — Supply and erection of metal windows for the Bryant Avenue shelter for B.C. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea. Tenders by Feb. 23.

Southport, Lancs.—Painting various structures in the parks and cemeteries, the work to be carried out during March 1961, for B.C. The work is divided into three contracts. Contractors may tender for any number. Documents from the Borough Architect and Town Planning Officer's Department, 99-105 Lord Street. Deposit £1 1s. Tenders by Feb. 10.

***Southport, Lancs.**—Moss Lane—reinforced concrete ejector chamber for B.C. Deposit £2 2s. Tenders by Feb. 27.

Stoke-on-Trent, Staffs.—Following for City Council: (a) New buildings—Burnwood County Secondary School — extensions comprising eight classrooms and toilet and cloaks accommodation. Improvements—Bucknall County Secondary School — additional classrooms, administration and toilet accommodation; Park County Secondary School—central boiler house, new laboratory and toilet accommodation; Cicely Haughton Special School—new hall and new residential staff accommodation; Heron Cross County Secondary School—new K.D.R.; Edensor County Secondary School—new classrooms and alterations to kitchen; Blurton County Junior and Infants' School—kitchen and dining room adaptation; Grange County Junior and Infants' School—extension of scullery to form new kitchen. (b) Heating installations—Burnwood County Secondary School—heating installation to extensions; Bucknall County Secondary School—heating installation to extensions; Park County Secondary School—heating installation to extensions; Heron Cross County Secondary School—heating installation to extensions; Edensor County Secondary School—heating and h.w.s. to extensions; Blurton County Junior and Infants' School—heating and h.w.s. to extensions. (c) Electrical installations—Blurton County Junior and Infants' School—installation to new kitchen, etc.; Bucknall County Secondary School—installation to additional classrooms, etc.; Oakhill County Secondary School — installation to new administration block; Ascos Nursery, Townsend—improvements to lighting; (d) miscellaneous—Ball Green County Secondary School—curtains and tracks for stage and assembly hall; Bucknall County Secondary School—laboratory furniture. Written applications to the City Architect, Kingsway, Stoke-on-Trent, by Feb. 7. Deposit £2 each contract. Tenders by March 6.

Stranraer, Wigtowns.—Erection of lavatory on the seaward side of Cairnryan Road, near its junction with Ladies Walk, for B.C. Documents from the office of the Burgh Surveyor, Dunbae House, Stranraer. Tenders by Feb. 17.

***Stroud, Glos.**—List of painting contractors for U.D.C. Apply by Feb. 17.

***Stroud, Glos.**—Supply and erection of 12 garages for U.D.C. Tenders by Feb. 18.

Sunderland, Dur.—Erection of community centre at Hylton Red House estate for B.C. Documents from the Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s. Tenders by Feb. 24.

Swale, Kent.—Erection of one block of six garages and store, concrete forecourt and ancillary site works at the Council Offices, 48-50 Bell Road, Sittingbourne, for R.D.C. Documents from the Engineer and Surveyor at Whitehall, 48-50 Bell Road, Sittingbourne. Deposit £3 3s. Tenders by Feb. 20.

Truro, Corn.—Alterations and improvements to be carried out at 10 and 11 Coventry Road, Flushing, for R.D.C. Documents from the Building Surveyor's Office, Rural Council Hall, River Street, Truro. Tenders by Feb. 20.

***Wandsworth.** — External painting works for B.C. Apply by Feb. 15.

Washington, Dur. — Erection of a civil defence training and recreation centre at Blue House Lane, for U.D.C. Documents from the Engineer and Surveyor, Council Chambers, Washington. Tenders by Feb. 27.

West Riding. — Improvements to existing accommodation at the West Riding County Council Highways Depot, Queensbury, near Halifax, for C.C. Documents from the office of the Divisional Architect, Flint Street, Huddersfield. Tenders by Feb. 17.

West Suffolk.—Erection of a controlled voluntary primary school at Rickinghall (approximate area 5,300 sq. ft.) for Co. E.C. Applications to the County Architect, Westgate House, Bury St. Edmunds, by Feb. 10. Tenders by March 15.

West Suffolk. — Breckland Secondary School, Brandon—erection of first phase having a total area of approximately 30,000 sq. ft. for Co. E.C. Applications to the County Architect, 13 Westgate Street, Bury St. Edmunds, before Feb. 10. Deposit £2 2s. Tenders by March 17.

***Widnes, Lancs.**—Erection of Bankfield Secondary School for B.C. Deposit £2 2s. Tenders by March 6.

Witney, Oxon.—Construction of bathroom, etc., to 10 houses at Bull Close, Filkins, for R.D.C. Documents from the Engineer and Surveyor, 36 Market Square, Witney. Tenders by Feb. 14.

Worksop, Notts.—Internal redecoration of the Rates Office, Town Hall, for B.C. Documents from the Borough Engineer, Park House, Worksop. Tenders by Feb. 10.

York. — Execution of work in connection with the maintenance of school buildings for City Council. The bulk of the work is to be carried out during the schools summer

holidays and will embrace the following: (1) (a) internal and external painting, (b) limewashing; (2) repairs and renewals: (a) boarded floors, (b) wood block floors and (c) thermoplastic tile flooring; (3) built-up roof work; (4) repairs: (a) plumbing, (b) brickwork; (c) joinery, (d) plastering and (e) chain link fencing; (5) resurfacing playground in asphalt; (6) painting of games lines in school yards. Applications to E. Firth, city architect, 8 St. Leonard's Place, York, by Feb. 10. Deposit £1 each (cheques payable to Corporation.

CLOTHING AND TEXTILES

Cheshire.—Supply of the following for C.C.: Firemen's uniforms, caps, footwear, leggings, overalls, shirts and ties, pullovers and socks. Documents from the Chief Fire Officer, Cheshire County Fire Brigade, Walmoor House, Dee Banks, Chester. Tenders by Feb. 13.

Croydon, Surrey.—Supply of fire brigade uniform clothing, footwear, etc., for men and women, for B.C. Documents from the Chief Officer, Central Fire Station, Croydon. Tenders by Mar. 4.

Denbighshire. — Supply during the period April 1, 1961, to March 31, 1962, of items of uniform clothing and equipment for members of the Fire Service, which should conform to specifications issued by the Home Office (Fire Service Department) dated June, 1951, and subsequently for the Denbighshire and Montgomeryshire Joint Fire Authority. Documents from W. E. Bufton, joint clerk, County Offices, Ruthin. Tenders by Mar. 31.

***Dewsbury, Yorks.**—Police uniform clothing for B.C. Tenders by Feb. 28.

Halifax, Yorks.—Supply of donkey jackets, boiler suits and ladies' drill overalls for B.C. Documents from the Town Clerk, Town Hall, Halifax. Tenders by Feb. 9.

Kirkcaldy, Fifes.—Supply of the following for Fife Fire Area Joint Committee: Officers' undress uniform, raincoats, shirts, ties, socks, shoes; firemen's tunics, trousers, undress jackets, black neckerchiefs, waterproof coats (three-quarter length), shirts, ties, socks, shoes, caps, leather fire boots, pullovers, dungaree jackets and trousers, fire helmets, waterproof leggings; firewomen's jackets and skirts, shirt blouses, stockings, shoes, caps. Documents from The Firemaster, Fire Brigade Headquarters, Dunnikier Road, Kirkcaldy. Tenders by Mar. 31.

Rutherglen, Lanarks.—Supply of waterproof coats, bib and brace overalls, boiler suits, etc., for various departments for B.C. Documents from Robert F. Pollock, town clerk, Council Chambers, Rutherglen. Tenders by Feb. 9.

DEMOLITION

Buckley, Flints.—Demolition of Stanley Road Chapel, the removal of all materials, and, on vacation, the site to be left cleared of all materials and rubbish, for U.D.C. The building, which has been used for industrial purposes, can be inspected on any weekday on an appointment being made with the Surveyor, Council Chambers, Buckley. (Tel: Buckley 223.) Tenders in a plain sealed envelope to Steven E. Ligo, clerk of the Council, Council Chambers, Buckley, by noon Feb. 16.

Consett, Dur.—Demolition of properties in Wood Street, Shotley Bridge, for U.D.C. Applications to the Surveyor, Consett Urban District Council, Council Offices, Medomsley Road, Consett. Tenders by Feb. 11.

Friern Barnet, Middx.—Demolition of hose drying tower for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Friern Barnet, N.11. Tenders by Feb. 7.

Isle of Ely.—Demolition of 1 Minster Place, together with the making good of and the provision of any necessary shoring to the party and boundary walls for C.C. Documents from the County Surveyor, County Hall, March, Cambs. Tenders by Feb. 6.

Lowestoft, Suffolk.—Demolition and clearance of fire brigade cottage, St. Peter's Street for B.C. Documents from the Borough Engineer's Office, 49 High Street, Lowestoft. Deposit £1. Tenders by Feb. 14.

Northallerton, Yorks.—Demolition and site clearance of cottage poperties being 8, 10, 12 and 14 Cockpit Hill, Brompton, for R.D.C. Documents from the Suveyor, The Old Vicarage, Northallerton. Tenders by Feb. 7.

Richmond, Yorks.—Demolition of reservoir and ancillary works at Ravensworth, for R.D.C. Documents from the Engineer and Surveyor, Swale House, Richmond. Deposit £2. Tenders by Feb. 11.

West Mersea, Essex.—Demolition of a pair of vacant semi-detached brick cottages known as Cherrytree Cottage and Rose Cottage, The Lane, West Mersea, for U.D.C. All materials to be stacked in separate piles and left on site as directed. Documents from E. J. Banner, surveyor, Council Offices, West Mersea. Tenders by Feb. 10.

ELECTRICAL

Armagh.—Electrical installation in R.U.C. County Headquarters, Palace Row, Armagh, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 14.

Belfast.—Installation of goods lift to replace existing goods lift in Education Department, 40 Academy Street, for City Council. Documents from the City Architect's Department, 40 Academy Street, Belfast, 1. Tenders by March 2.

Cork, Eire. — Installation of passenger and service lifts at Cork Airport for Department of Transport and Power. Documents from the Department of Transport and Power, Kildare Street, Dublin. Deposit £10. Tenders by Feb. 10.

Stoke-on-Trent, Staffs.—Longton Town Hall: Electric circuit improvement for City Council. Written applications to the City Architect, Kingsway, Stoke-on-Trent, by Feb. 7. Deposit £2. Tenders by March 6.

Sunderland, Dur.—Electrical installation in 260 dwellings for B.C. Documents obtainable from the Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by Feb. 13.

FENCING

***Bedfordshire.** — Fencing for C.C. Deposit £2. Tenders by Feb. 24.

Grantham, Lincs. — Supplying and erecting approx. 4,780yd. of concrete post and strained wire fencing at Earlsfield estate for B.C. Documents from S. L. Mitchell, borough engineer and surveyor, Guildhall, Grantham. Tenders by Feb. 11.

Spennymoor, Dur.—Supply and erection of reinforced concrete posts and timber rails and palings creosoted under pressure at various sites for U.D.C. Applications to the Surveyor, Town Hall, Spennymoor. Tenders by Feb. 10.

GAS AND WATER SUPPLY

Ballycastle, Antrim. — Water scheme at Cushendall/Cushendun, for R.D.C., including the provision and laying of approximately 6¾ miles of 5in. diameter, 4in. diameter and 3in. diameter water mains in asbestos, cast-iron and rigid P.V.C., and the construction of two 40,000-gallon concrete service reservoirs, complete with intake works, chlorinator and meter houses and other ancillary works. Documents from T. J. Sheehan, clerk of the Council, Ballycastle R.D.C., Council Offices, Ballycastle. Deposit £5 5s. Tenders by Feb. 14.

***Berkshire.**—Water main, contract 24, for Thames Valley Water Board. Deposit £3 3s. Tenders by Feb. 20.

Chelmsford, Essex.—Laying and jointing of asbestos-cement pressure pipes, together with incidental works, as follows, for R.D.C.: (1) Bakers estate, Bicknacre, Woodham Ferrers—approximately 160 lin. yd. 3in. diameter main; (2) Butlers estate, Broomfield—approximately 180 lin. yd. 3in. diameter main; (3) Chase estate (phase 2), Ingatestone—approximately 380 lin. yd. 4in. diameter main. Documents from Engineer and Surveyor, Rural District Council Offices, New London Road, Chelmsford. Deposit £1 1s. each. Tenders by Feb. 20.

East Cornwall. — Laying of approximately 2,200yd. of 4in. spun-iron concrete-lined main at Menheniot, Liskeard, for Water Board. Documents from J. R. Fairbank, engineer, Trewithan, Liskeard, on or after Feb. 3. Deposit £2 2s. Tenders by Feb. 20.

Haverfordwest, Pembs.—Burton East water extension for R.D.C., including providing and laying approx. 1,800yd. of 2in. asbestos-cement pressure pipe, with valves, fittings and appurtenant works. The site is situated seven miles south-east of Haverfordwest. Documents from the Engineer and Surveyor, 8-10 Picton Place, Haverfordwest. Tenders by Feb. 17.

Nottingham.—Manufacture, supply, erection and setting to work complete of centrifugal well pumps, electric motors, switchgear, and other appurtenant work, at Basford pumping station for City Council. Documents from B. W. Davies, engineer and general manager, Water Department, Castle Boulevard, Nottingham. Deposit £2 2s. Tenders by March 20.

Sulhamstead, Berks.—Construction of a 4in. water main from Ufton Nervet Road, to Home Farm, for Thames Valley Water Board. The work comprises: (a) Laying and jointing approximately 1,340yd. of 4in. spun-iron water mains; (b) other appurtenant works, e.g., fixing specials, washouts, sluice valves, etc., with connections to existing mains. Document from P. E. B. Gosling, clerk, Berkeley Avenue, Reading. Deposit £3 3s. Tenders by Feb. 13.

Upton-upon-Severn, Worcs.—Laying of approximately 521yd. of 3in. spun-iron main with Tyton joints at Pinns Green, Newland, near Malvern, for R.D.C. Documents from the Surveyor, Council Offices, Upton-upon-Severn, Worcester. Deposit £2. Tenders by Feb. 11.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Tarbert (Loch Fyne), Argyll.—Reconstruction of the east and west fish wharves for Harbour Authority. The proposed west wharf works consist of an 18in. flat slab deck measuring 206ft. long by 31ft. 9in. wide, supported by 51 14in. by 14in. reinforced concrete piles, and fendered by greenheart piles, walings and planking. The proposed east wharf, which measures 116ft. long, consists of a reinforced concrete beam and slab wharf structure varying in width from 10ft. to 26ft. supported by concrete and steel piles, the whole being surrounded by an anchored steel sheet piled wall. Documents from A. M. Robertson, consulting engineer, Royal Bank Buildings, 10 East Princes Street, Helensburgh. Deposit £5 5s. Tenders by Feb. 22.

HEATING AND VENTILATING

Armagh.—Low pressure hot water heating, etc., Poultry Testing Station, stage 2, Gosford Castle Estate, Co. Armagh, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 13.

Clutton, Som.—Hot water installations with portable ranges at 1-8 Chew Stoke, for R.D.C. Documents from the Housing Manager at the Council Offices, Temple Cloud, Bristol. Tenders by Feb. 15.

East Riding. — Installation of heating and hot and cold water services at the proposed County Secondary School, Norton, near Malton, for C.C. Applications to the County Architect, County Hall, Beverley. Tenders by Feb. 9.

HOUSING SCHEMES

Aberdeenshire.—Various trades in connection with the erection at the following for C.C.: Tarves—six old people's cottages, four houses and a nurse's house and garage in brick construction; Strichen—four old people's cottages and four houses in brick construction. Excavator, concrete, mason and brick works; carpenter, joiner and ironmonger works; plumber work; roof tiler and roughcast work; plaster and grates works; electrical work; painter and glazier work. Applications to County Architect's Department, 55 Queen's Road, Aberdeen. Tenders by Feb. 16.

Bootle, Lancs.—Erection of 94 flats and maisonnettes, Strand Road/Jersey Street, scheme 43, for B.C. Documents from Borough Surveyor's Department, Town Hall, Bootle, 20. Deposit £2 2s. Tenders by Feb. 24.

Chester.—Erection and completion of four flats, three bungalows and two houses at Stoak, for R.D.C. Documents from the office of T. C. R. Eaton, architect, 16 White Friars, Chester. Deposit £3 3s. Tenders by Feb. 27.

Chorley, Lancs. — Fifty-six dwellings at Princess Street housing site (section 2) for B.C. Documents from the Borough Engineer's Office, Town Hall, Chorley. Deposit £2 2s. Tenders by Feb. 20.

Colne Valley, Yorks. — Erection of 10 terrace houses at Stockerhead Lane, Slaithwaite, for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Slaithwaite, near Huddersfield. Deposit £1 1s. Tenders by Feb. 13.

Dungannon, Tyrone.—Two semi-detached houses at Newton's Road, Mullaghadun, Newmills, for R.D.C. Documents from C. A. Irwin, clerk of the Council, Rural District Council Offices, Dungannon. Deposit £3 3s. Tenders by Feb. 16.

***Epping, Essex.** — Housing at Centre Drive estate, for U.D.C. Deposit £2 2s. Tenders by April 3.

Farnham, Surrey.—Construction of one pair of three-bedroom houses at Baldreys for U.D.C. Documents from the office of Gilbert and Hobson, architects, 69a Castle Street, Farnham. Deposit £2. Tenders by Feb. 24.

***Gillingham, Kent.** — Twelve dwellings at Brompton, for B.C. Deposit £5 5s. Tenders by Feb. 24.

Grangemouth, Stirlings.—Erection of 54 three-storey flats at Abbotsgrange, Grangemouth, for Scottish Special Housing Association. Applications to The Secretary, Scottish Special Housing Association, Ltd., 19 Palmerston Place, Edinburgh, 12.

Lindsey. — Erection of the following for C.C.: One detached house, Lade Bank, Wrangle; one detached house, East Keal Bridge, Toynton All Saints. Documents from T. A. Twigg, county land agent, County Offices, Lincoln. Tenders by Feb. 17.

Liverpool.—Work in the Tryweryn Valley, Merionethshire, for City Council, including two semi-detached houses and two detached bungalows at Frongoch. Documents from the Water Engineer, 55 Dale Street, Liverpool, 2, from Feb. 13. Tenders by March 8.

Liverpool.—Construction of 91 dwellings, Storrington Avenue, for City Council. Documents from City Architect and Director of

Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s., payable to City Treasurer. Tenders by Feb. 9.

Newcastle-under-Lyme, Staffs.—Erection and completion of three bungalows at Furnace Lane, Madeley, for R.D.C. Documents from F. W. Ramm, clerk of the Council, Council Offices, Sidmouth Avenue, The Brampton, Newcastle, Staffs. Deposit £2 2s. Tenders by Feb. 11.

Northallerton, Yorks.—Erection of seven single-storey dwellings of traditional construction for R.D.C. Documents from D. Parkin, clerk of the Council, The Old Vicarage, Northallerton. Deposit £2 2s. Tenders by Feb. 10.

Portadown, Armagh.—Erection and completion of the following for B.C.: (1) Seventy-six dwellings at Brownstown Road, comprising 36 flats, 28 houses and 12 bungalows; (2) eight houses at Armagh Road; together with certain ancillary works in each case. Documents from the Borough Architect's Office, Tavanagh House, Thomas Street, Portadown. Deposit £5 5s. and £2 2s. respectively. Tenders by Feb. 20.

***St. Albans, Herts.**—Sixteen old people's flatlets for City Council. Tenders by March 7.

***Southampton.**—One hundred and thirty-six flats for B.C. Apply by Feb. 13.

South Cambridgeshire. — Following for R.D.C.: (a) The construction of ten bungalows, Gamlingay, Cambridgeshire; (b) the installation of hot and cold water services, provision of bathrooms, including w.c. suites and drainage work, to 28 houses, Stocks Lane and Cinques Road, Gamlingay, Cambridgeshire. Applications to the Architect and Surveyor, County Hall, Hobson Street, Cambridge. Deposit £2 2s. each, cheques payable to R.D.C. Tenders by Feb. 14.

Strood, Kent.—Erection of 18 flats and 24 houses at Swingate estate, Cliffe, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Frindsbury Hill, Strood. Deposit £5 5s. Tenders by Feb. 22.

Wandsworth.—Erection of 11 flats in two three-storey blocks at Hopton Road, Streatham, for B.C. Applications to J. Noel Martin, town clerk, Municipal Buildings, Wandsworth, S.W.18, by Feb. 8, giving details of experience, plant and technical and supervisory staff available, together with names of two technical and two financial referees. Documents will be issued to selected contractors in due course. Drawings may be examined at the office of J. Hewitt Mitchell, 140 Streatham Hill, S.W.2.

West Lothian.—Following trades in respect of 84 houses to be erected at Westrigg, Blackridge, for C.C.: Excavator, brick, etc., works; carpenter joiner and glazier works; roof tiler and roughcast work; plumber work; plaster and cement work; and electrical work. Applications to John Calder, clerk, County Buildings, Linlithgow, by Feb. 6.

Wexford, Eire.—Following for B.C.: Thirty working class dwellings at John Street, and seven working class dwellings at Faythe. Documents from John J. Byrne, town clerk, Municipal Buildings, Wexford. Deposit £2 2s. Tenders by Feb. 25.

MATERIALS AND SUPPLIES

Airdrie, Lanarks.—Supply of the following for B.C.: (a) Joiner's materials and ironmongery, etc.; (b) paints; (c) paint brushes; (d) plumber's requisites; (e) medical supplies; (f) cleaning materials; (g) motor car supplies; (h) electric lamps; and (i) builder's, slater's and plasterer's materials for the period from May 16, 1961, to May 15, 1962. Documents from Jas. Taylor, town clerk, Municipal Buildings, Airdrie. Tenders by Mar. 6.

Ashington, Northumb. — Supply of the following for the 12 months commencing April 1, 1961, for U.D.C.: Dry roadstone; tarred and bituminous whinstone; cold bitumen emulsion; sand; black ash and red shale; tar and tar compounds; cement (B.S.S.); precast concrete kerbs, flags and edging; cast-iron road gullies, manholes covers and frames; lubricating oil, greases and motor fuels; rubber tyres, remoulds and retreads; dustbins; scavenging brooms; overalls; motor haulage; paint; paint brushes. Documents from the Engineer and Surveyor, Council Offices, Ashington, enclosing stamped, addressed envelope. Tenders by Feb. 18.

Bangor, Caerns.—Supply of the following for a period from April 1, 1961, to March 31, 1962, for City Council: (1) Stone for macadam, tarmacadam and chippings; (2) road surface dressing (tar and cold emulsions). Documents from the offices of the City Surveyor, Town Hall, Bangor. Tenders by Feb. 10.

Batley, Yorks.—Supply of the following during the 12 months ending March 31, 1962, for B.C.: (1) Portland cement; (2) concrete aggregates; (3) concrete kerbs and flags; (4) stone kerbs; (5) quartzite, granite and slag chippings for tarspraying; (6) crushed limestone; (7) tar and bitumen (hot spraying); (8) bituminous cold emulsion; (9) tarmacadam; (10) cold asphalt; (11) hydrated lime; (12) salt glazed ware pipes; (13) bricks; (14) salt; (15) petrol, oils and lubricants; (16) castings; (17) ironmongery; (18) dustbins and gas boilers; (19) chromium plated water taps; (20) hand brooms and rebristling brooms for mechanical road sweeper; (21) ashes and hired haulage; (22) ready-mixed concrete. Documents from the Borough Engineer, Hanover Street, Batley, on receipt of stamped addressed foolscap envelope. Tenders by Feb. 11.

***Bedfordshire.**—Annual contracts for C.C. Tenders by Feb. 18.

***Berkshire.** — Biennial tenders for C.C. Tenders by Feb. 16.

***Birkenhead, Ches.**—Supply of chemicals for B.C. Tenders by Feb. 13.

***Bognor Regis, Sussex.**—Supply of materials for U.D.C. Tenders by Feb. 25.

Chesterfield, Derbys. — Supply of the following for the year commencing April 1, 1961, for B.C.: (1) Slag, limestone and basalt tarmacadam; (2) slag, limestone and basalt bitumen macadam; (3) pre-mixed waterbound macadam; (4) special surfacings, e.g., cold asphalt; (5) sealing grit; (6) dry slag, limestone, granite, gravel and basalt chippings; (7) cold bituminous emulsions; (8) hot tar; (9) precast paving slabs, kerb, channel and edgings; (10) cement and sand; (11) salt glazed ware pipes, specials, gullies, etc.; (12) concrete pipes, specials, gullies, etc.; (13) manhole covers, gulley grates, etc. Documents from the Borough Engineer, Town Hall, Chesterfield. Tenders by Feb. 11.

Deal, Kent.—Supply of the following for B.C.: Cold asphalt; tarmacadam; crushed grit; ballast; sand; refined tar; precast concrete kerbs and paving flags; manhole covers and frames; toilet rolls; armoured gloves; channel brooms; electric lamps; cleaning rags. Documents from the Borough Treasurer, Ia Victoria Road, Deal. Tenders by Feb. 17.

Derbyshire.—Team labour and machanical haulage for year ending March 31, 1962, for C.C. Documents from S. Mehew, county surveyor, County Offices, Matlock, or from District Surveyors at Ashbourne, Calver, Darley Dale, Duffield, Chapel-en-le-Frith, Clay Cross, Dronfield, Melbourne and Willington. Tenders by Feb. 10.

***Durham.**—Supply of portable stands, etc., for C.C. Tenders by Feb. 10.

Durham.—Supply of the following for C.C.: (1) Chain link, straining bolts, fencing clips, etc.; (2) angle-irons; (3) concrete posts; (4) grass seed; (5) fertilizers. Documents from Supt. of Playing Fields, 26 Market Place, Durham. Tenders by Feb. 18.

***Edinburgh.**—Supply mobile huts for City Council. Tenders by Feb. 13.

Flintshire.—Supply of tools and equipment for a vehicle repair depot at the County Ambulance Headquarters, Mold, for C.C. Documents from the Clerk of the County Council, County Buildings (P.O. Box 1), Mold. Tender s by Feb. 13.

Gloucester.—Supply of the following during the year commencing April 1, 1961, for City Council: (1) Concrete paving slabs; (2) concrete kerb and edging; (3) granite chippings; (4) refined tar and bituminous compounds; (5) clean and treated road stone; (6) gravel and sand; (7) motor hauling; (8) castings; (9) dustbins; (10) protective clothing; (11) brushes; (12) cement; (13) petroleum products; (14) lubricating oils; (15) ready mixed concrete. Applications to the City Engineer and Surveyor, 21 Eastgate Street, Gloucester. Tenders by Feb. 8.

***Haslemere, Surrey.** — Supply of granite chippings for U.D.C. Tenders by Feb. 18.

***Haslemere, Surrey.**—Supply of tar for U.D.C. Tenders by Feb. 18.

Hastings, Sussex.—Supply of the following during the year commencing April 1, 1961: (a) Paint; (b) paint brushes; (c) brooms and brushes; (d) dustbins; (e) disinfectants; (f) canvas; (g) soaps; (h) towelling and dusters; (i) toilet paper; (j) tarspraying; (k) and (l) coal; (m) coke; (n) ballast, crushed beach, binder gravel, sea sand, builders' sand, clinker ash; (o) tarmacadam, bitumen macadam, cold asphalt, tack coat; (p) dry Kent ragstone; (q) cement, stoneware pipes, concrete pipes, gully pots; (r) precast paving slabs and kerbs; (s) granite kerbs; (t) cast-iron manhole and gully covers and frames. Documents from the Borough Engineer, 37 Wellington Square, Hastings. Tenders by Feb. 13.

Haverfordwest, Pembs. — Following for a period of 12 months from April 1, 1961, for B.C.: (a) Petrol and oils; (b) precast concrete slabs and kerbs; (c) dry and tarred stone, gravel and sand; (d) building materials; (e) haulage. Documents from the Borough Surveyor, 2 Picton Place, Haverfordwest. Tenders by Feb. 13.

High Wycombe, Bucks.—Supply of the following for the 12 months ending March 31, 1962, for B.C.: (1) Ballast, washed sand, building sand, shingle, etc.; (2) Portland cement; (3) manhole covers and frames, gully grates and frames; (4) granite and limestone tarmacadam; (5) concrete kerb, flag paving, etc.; (6) granite chippings; (7) petrol; (8) workmen's clothing. Applications to the Borough Engineer and Surveyor, Council Offices, High Wycombe. Tenders by Feb. 17.

***Kearsley, Lancs.** — Annual tenders for U.D.C. Tenders by Feb. 20.

***Kidsgrove, Staffs.**—Supply of materials for U.D.C. Tenders by Feb. 16.

Lanarkshire.—Supply of the following road materials or stores and undertaking the following works during the year from May 16, 1961, to May 15, 1962, for C.C.: (a) Supplies: (1) tools and implements; (2) fencing materials; (3) drain pipes, gullies and gratings; (4) concrete paving slabs; (b) general carting, motor haulage work and motor haulage with snowplough attachment, in the parishes of Avondale, Biggar, Blantyre, Bothwell, Cadder, Cambuslang, Cambusnethan, Carluke, Carmichael, Carmunnock, Carnwath, Carstairs, Covington, Crawford, Crawfordjohn, Culter, Dalserf, Dalziel, Dolphinton, Douglas, Dunsyre, East Kilbride, Glasgow (Barony), Glassford, Hamilton, Lamington and Wandel, Lanark, Lesmahagow, Libberton, New Monkland, Old Monkland, Fettinain, Rutherglen, Shotts, Stonehouse, Symington, Walston, Wiston and Roberton; (e) haulage of material—ex Cairngryffe Quarry, Sherifford, by Biggar; ex Duntilland Quarry, Salsburgh, by Motherwell; ex Carfin mixing plants, Carfin, by Motherwell. Applications to Col. T. U. Wilson, county surveyor, 19 Auchingramont Road, Hamilton, by Feb. 17.

Leyland, Lancs.—Supply and delivery of the following during the period from April 1, 1961, to March 31, 1962, for U.D.C.: (1) Tar and bituminous compounds; (2) filled bitumen; (3) tarred and bituminous macadam; (4) granite chippings and crushed gravel (surface dressing, coated and clean); (5) clinkers, ashes and shale; (6) rubble, broken stone, stone, gravel and sand; (7) concrete kerbs, flags and channels; (8) stoneware and concrete pipes, tubes, gullies and specials; (9) iron castings—gully grates, manhole covers; (10) plastic compound for traffic lines; (11) motor haulage hire; (12) electric lamps for street lighting. Documents from F. D. Howe, engineer and surveyor, Council Offices, Leyland. Tenders by Feb. 25.

Loughborough, Leics.—Supply of the following during the year ending March 31, 1962, for B.C.: (a) concrete flags and kerbs; (b) bituminous macadam, etc.; (c) granite; (d) Portland cement. Applications to John S. Bates, borough surveyor, Southfields, Loughborough. Tenders by Feb. 13.

Luton, Beds.—Supply and delivery of ironmongery for 34 houses at Gooseberry Hill, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by Feb. 13.

***Margate, Kent.**—Annual tenders for B.C. Tenders by Feb. 18.

***Middlesbrough, Yorks.**—Stores, materials, etc., for Tees Valley and Cleveland Water Board. Tenders by Feb. 22.

***Morley, Yorks.** — Supply of materials for B.C. Tenders by Feb. 10.

***Neath, Glam.**—Annual tenders for B.C. Tenders by Feb. 11.

Northern Ireland.—Supply of paints to Government establishments in Northern Ireland, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 15.

Norwich. — Following for the year commencing April 1, 1961, for City Council: Bitumen granite; disinfectant; precast concrete kerbs, flags and edging; Portland cement; sand, shingle, etc.; salt-glazed ware pipes, fittings, gullies, etc.; manhole covers and frames; scavenging brooms (Bahia); hot rolled asphalt (including laying); ironmongery; hire of motor cars and lorries; hard bar soap; electric lamps; washing soda; metal polish; torch batteries; toilet rolls; floor polish; floor cloths; dusters; scouring powder; motor spirit, boiler fuel oil, etc.; cold asphalt (mixing plant to be within 40-mile radius of Norwich). Documents from the City Engineer, City Hall, Norwich, Nor 01A. Tenders by Feb. 13.

Peterborough.—Supply and delivery of 30 place name signs, complete with posts, caps and all necessary fittings, for C.C. Documents from the County Surveyor, County Offices, Bridge Street, Peterborough. Tenders by Feb. 6.

***Plymouth.**—Supply of asphalt and flux oil for City Council. Tenders by Feb. 15.

***Poplar.** — Supply of clothing, etc., for B.C. Tenders by Feb. 22.

***Prescot, Lancs.**—Annual tenders for U.D.C. Tenders by Feb. 18.

***Rawtenstall, Lancs.**—Annual tenders for B.C. Tenders by Feb. 28.

Saffron Walden, Essex.—Supply and delivery of the following for the year ending March 31, 1962, for B.C.: Tarmacadam and bituminous macadam, asphalt and concrete (supplied); tarmacadam and bituminous macadam, asphalt and concrete (mechanically laid); fine cold asphalt; granite for surface dressing; shingle

for surface dressing; surface dressing—tar and bitumen; gravel aggregates, grit and sand; salt for water softening and snow clearing; plastic white line material and road paint; concrete kerbs and paving slabs; cement; refined tar and bitumen emulsion in barrels; cutting (mechanically) roadside verges; petrol and oils: salt glazed pipes; concrete pipes and gullies. Tenders, in plain sealed envelopes, endorsed "Annual Tenders" to H. C. Stacey, town clerk, Municipal Offices, Saffron Walden, by Feb. 28.

Salisbury, Wilts.—Supply of the following during the year commencing April 1, 1961, for City Council: Brushes; iron castings; cement; roadstone; tarred and bituminous macadam; sand; ballast; concrete kerb and paving slabs; petrol and diesel oil. Documents from the City Engineer, The Council House, Bourne Hill, Salisbury. Tenders by Feb. 13.

Stamford, Lincs.—Supply of the following materials and/or execution of work for the period ending March 31, 1962, for B.C.: (a) Tarred slag and/or granite, bituminous macadam; (b) clean granite and slag chippings; (c) gravel and sand; (d) pitching stone; (e) concrete kerb and edging; (f) dressed granite edged kerb; (g) concrete flags; (h) sawn natural stone flags; (i) surface dressing; (j) petroleum spirit and derv. fuel. Documents from the Borough Surveyor and Engineer, Town Hall, Stamford. Tenders by Feb. 10.

Stanley, Dur.—Supply of electrical materials for the year ending March 31, 1962, for U.D.C. Documents from J. J. Shipston, clerk of the Council, Council Offices, Stanley, Co. Durham. Tenders by Feb. 20.

Stanley, Dur.—Supply and delivery of the following during the 12 months commencing April 1, 1961, for U.D.C.: Dry roadstone; sand and gravel; ready mixed concrete; tarred and bituminised roadstone; cold asphalt; precast concrete kerbs and flags; hot surface dressing; cement; salt-glazed ware pipes and fittings; galvanised dustbins; scavenger broom heads; paints, etc., and glass. Documents from R. H. Snowball, enginer and surveyor, Scott Street, Stanley. Tenders by Feb. 20.

Sutherland.—Supply of the following for the year May 16, 1961, to May 15, 1962, for C.C.: (1) Cement; (2) crushed granite or whinstone chippings; (3) road tools; (4) rubber boots; (5) paint; (6) pipes (concrete and fireclay); (7) tarmacadam; (8) tyres. Documents from W. Sutherland, county road surveyor, Highway Department, Brora. Tenders by Feb. 15.

Swadlincote, Derbys.—Supply and delivery of the following for the year ending on March 31, 1962, for U.D.C.: Tarred limestone and tarred granite; bituminous limestone and bituminous granite; lightly tarred granite chippings; limestone — wet-mix; dry stone and chippings (granite and limestone); washed crushed gravel; road tar (type A), including spraying on to roads; fine cold asphalt; Portland cement; petroleum spirit and lubricating oils; dustbins; concrete kerbs and paving slabs; rebristling of Lewin road sweeper brushes. Documents from the office of the Engineer and Surveyor, Bank House, Midland Road, Swadlincote. Tenders by Feb. 15.

Wellington, Salop.—Following for the year ending March 31, 1962, for U.D.C.: (1) Cement and lime; (2) aggregates and sand; (3) tarmacadam, bitumen macadam and fine cold asphalt; (4) kerbs, channels and flags; (5) petrol, paraffin, diesel and gas oil; (6) dustbins; (7) protective clothing; (8) cast-iron covers and gratings; (9) cleaning materials; (10) sanitary fittings; (11) salt glazed ware pipes and drain fittings; (12) tungsten, fluorescent and discharge lamps; (13) electrical cable and fittings; (14) brushes and refilling brushes for Lewin roadsweeper; (15) painter's brushes and sundries; (16) paints; (17) ironmongery; (18) plumber's brassware, fittings, etc.; (19) surfacing of roads. Documents from Engineer and Surveyor, 14 Walker Street, Wellington. Tenders by Feb. 21.

***Widnes, Lancs.**—Supply of materials for B.C. Tenders by Feb. 16.

Workington, Cumb.—Supply and delivery of the following for the period of 12 months ending March 31, 1962, for B.C.: (1) Dry limestone, bituminous and tarred limestone macadam; (2) dry granite, bituminous and tarred granite macadam; (3) fine cold asphalt; (4) dense tar surfacing; (5) premixed waterbound macadam; (6) sand; (7) cement; (8) manhole covers and gully gratings and frames; (9) concrete flags, kerbs and channels; (10) haulage; (11) overalls; (12) paint. Documents from the Borough Engineer and Surveyor, Stoneleigh, Park End Road, Workington. Tenders by Feb. 17.

***Worksop, Notts.**—Annual tenders for B.C. Tenders by Feb. 20.

PLANT AND MECHANICAL TRANSPORT

Clare, Suffolk.—Supply and delivery of one petrol-engined refuse collecting vehicle for R.D.C., with all-steel body and Karrier Gamecock chassis. The vehicle is to have a 12 cu. yd. capacity, fitted with four section covers and single cab to seat three, to be painted with sealer and three coats of cellulose finish, together with 24 letters on each side of the vehicle; and to be delivered, complete with number plates and road licence, to the Council's Snow Hill Depot, Clare. Tenders, in plain sealed envelopes and endorsed "Refuse Vehicle," to John Allpress, clerk of the Council, Stonehall, Clare, Sudbury, by Feb. 8.

Gravesend, Kent.—Supply of one diesel 3-ton tipping truck and two petrol 5cwt. vans, taking old vehicles in part exchange, for B.C. Documents from the Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend. Tenders by Feb. 13.

Hereford.—Supply and delivery of portable air compressor for roadworks for City Council. The plant is to comprise diesel engine and compressor, delivery approximately 125 cu. ft./min. at 100lb. per sq. in., with air receiver, and mounted on two pneumatic-tyred wheels, painted and lettered to the Council's requirements, and complete with air hose and two pneumatic road breakers. Tenders should be accompanied by illustrated literature and complete specification. The successful tenderer may be required to take in part exchange the Council's present Broomwade SVD1 compressor, hose and breakers, and the tender should state the allowance to be made for this machine, which may be inspected by appointment. Tenders, endorsed "Compressor," to J. A. Weston, town clerk, Town Hall, Hereford, by 9 a.m. Feb. 10.

Hereford. — Supply of refuse collecting freighter(s) having a minimum capacity of 18 cu. yd., of the compressor type, and complete in every detail, for City Council. Tenders including for painting and lettering of the vehicle in approved colours, must be accompanied by a complete specification and illustrations. Any further particulars with regard to the requirements may be obtained from F. Margerison, city surveyor, Town Hall, Hereford. Tenders, endorsed "Refuse Freighter," to J. A. Weston, town clerk, Town Hall, Hereford, by 9 a.m. Feb. 10.

Lancashire.—Supply of new plant, comprising the following for C.C.: Group A—four Yorkshire gully emptiers, 800-gallon; one Yorkshire trailer gully emptier, 450-gallon; one Johnston sweeper-collector; two pneumatic-tyred road rollers; one Muir-Hill dumper, 3 cu. yd.; one Thwaites dump truck; two Stothert and Pitt vibrating rollers, 3¼-ton; six Stothert and Pitt vibrating rollers, 28in.; one loading shovel, 1 cu. yd. Group B—four hydrovane mobile compressors; two 2-tool mobile compressors; three portable centrifugal pumps, 2in.; two Wacker rammers, type BS50; one Warsop breaker, type S7; four Tuke and Bell gritting attachments; three portable traffic signals. Group C—12 Ferguson FE35 tractors and equipment; seven trailers for Ferguson tractors; two Massey-Ferguson tractor digger shovels, 3-in-1; four Cameron-Gardener loading shovels for Ferguson tractors; eight Hayter mowers; three Twose verge trimmers; three Ferguson mowers; 10 Allen mowers; one Bunce vertical channel brush for Ferguson tractor. Group D—one Lolode trailer, 3-ton; seven vibrating roller trailers, 28in.; two 250-gallon water tank trailers; 12 snowploughs; two Vista Line white line machines; two plastic heater and mixers, 80-gallon. Documents from the County Surveyor and Bridgemaster, County Hall (P.O. Box 9), Preston. Deposit £5, cheques payable to C.C. Tenders by Feb. 11.

Newcastle upon Tyne. — Supply and delivery of two Leyland Octopus bulk load-carrying vehicles of approximately 41 cu. yd. capacity for City Council. Documents from the Director of Public Cleansing, Newington Road, Newcastle upon Tyne, 2. Tenders by Feb. 8.

PLAYING FIELDS, PARKS, ETC.

***Cardiff.**—Conversion of pool to paddling pool at Victoria Park, for City Council. Deposit £2 2s. Tenders by Feb. 23.

Coulsdon and Purley, Surrey.—Planting on island site at Oak Road, Kenley, for U.D.C., including site preparation, grass seeding, planting of trees and sundry works. Documents from Eric F. J. Felix, clerk of the Council, Council Offices, Purley, Surrey. Deposit £3 3s. Tenders by Feb. 9.

Friern Barnet, Middx. — Following at Bethune recreation ground for U.D.C.: The Council offer tipping facilities for approximately 3,000 cu. yd. of suitable material and invite tenders for soiling and seeding or turfing on completion of an area of approximately 2,400 sq. yd. Documents from the office of the Engineer and Surveyor, Town Hall, Friern Barnet, N.11. Tenders by Feb. 11.

Lancashire.—Development of playing fields and erection of fencing, etc., at Halewood, for C.C.: St. Andrew's R.C. Secondary School for Boys; St. Andrew's R.C. Primary School; St. Peter's R.C. Primary School; County Primary Schools 1, 2 and 3. Applications to County Architect, P.O. Box 26, County Hall, Preston, by Feb. 8.

Oxford.—Laying out of the Barton Village Road Recreation Ground. The work comprises four separate contracts: (1) Brick pavilion of 2,600 sq. ft. floor area; (2) car park and road, 1,400 sq. yd. tarmacadam paving; (3) bowling green, 1,700 sq. yd. seeded area; and (4) tennis courts, 2,400 sq. yd. tarmacadam paving. Applications to the City Engineer, Town Hall, Oxford. Tenders by Feb. 10.

Stockport, Ches.—Work at Castle Farm Tip, Cherry Tree Lane, comprising levelling and covering approximately 14,500 sq. yd. of Tip to an average depth of 9in. for B.C. Documents from Borough Surveyor, Town Hall, Stockport. Tenders by Feb. 13.

Wandsworth.—Maintenance of gardens at housing estates, total approximate area 40 acres for B.C. Applications to J. Noel Martin, town clerk, Municipal Buildings, Wandsworth, S.W.18, by Feb. 8, giving details of experience, plant and technical and supervisory staff available, together with names of two technical and two financial referees.

Wiltshire. — Construction and improvement of sports grounds and playing fields for C.C. Applications to the County Land Agent, Old County Offices, Hill Street, Trowbridge, by Feb. 28, including the names and addresses of two persons to whom reference may be made.

RAILWAY ENGINEERING

Manchester. — Civil engineering work in supplying and laying railway sidings for the new abattoir at Philips Park, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Feb. 8.

RIVER AND FLOOD PREVENTION WORKS

Middlesex. — Pymmes Brook improvement scheme, Green Lanes to Bowes Road, for Lee Conservancy Catchment Board, in the Borough of Southgate: (a) Construction of about 4,350ft. of mass concrete open channel of widths varying from 16ft. 9in. to 19ft. across the invert and heights from 8ft. 8in. to 10ft. 8in.; (b) construction of a 15in. diameter foul sewer inverted syphon under Deadmans Bridge, Green Lanes, and the removal of the existing syphon; (c) construction of two precast footbridges; (d) underpinning of about 152 lin. ft. of the abutments to Deadmans Bridge; (e) demolitions, filling, soiling, seeding, fencing and other appurtenant works. Documents from N. Medrington, engineer to the Board, at The Grange, Crossbrook Street, Cheshunt, Herts. Deposit £5. Tenders by Feb. 27.

ROADS, BRIDGES AND SITE WORKS

***Altrincham, Ches.**—Asphalt surfacing to carriageway—Stockport Road, for B.C. Deposit £1 1s. Tenders by Feb. 20.

***Barking, Essex.** — Reinstatement of trenches for B.C. Tenders by Feb. 21.

***Barking, Essex.**—Construction of carriageway and garage areas at Mayesbrook Meadow, for B.C. Tenders by Feb. 27.

Basford, Notts.—Following works at Larkfield Estate, Nuthall, for R.D.C.: Demolition of disused buildings on site, taking up drains, etc. Preliminary preparation of roadworks including pitching, laying of 6in. foul and surface water sewers. Documents from the Joint Engineer and Surveyor's Department, Rock House, Stockhill Lane, Basford. Deposit £2 2s. cheque. Tenders by Feb. 15.

Basildon, Essex.—Road improvement works to be executed at the junction of Bull Road with Timberlog Lane, Vange, for Development Corporation, approximately 700 yd. north of the junction with the London to Southend Road, A.13. The works comprise the breaking up and removal of approximately 2,500 sq. yd. of existing carriageways, excavation, preparation and laying a total of 7,500 sq. yd. of reinforced concrete and flexible carriageways, together with sewers and ancillary works. Applications to the Chief Engineer, Basildon Development Corporation, Gifford House, Basildon, Essex. Deposit £2 2s. Tenders by Feb. 20.

Bingley, Yorks.—Supply of limestone and granite chippings to be delivered at points within the area for U.D.C. Documents from the Surveyor, Town Hall, Bingley. Tenders by Feb. 15.

Bingley, Yorks.—Supply and spraying of approximately 30,000 gallons of tar on highways for U.D.C. Documents from the Surveyor, Town Hall, Bingley. Tenders by Feb. 15.

Bingley, Yorks.—Private street works at Grange Park Road and Eastwood Crescent, Cottingley, comprising drainage, metalling, flagging, etc., area of carriageway approxi-

mately 1,900 sq. yd. for U.D.C. Documents from Arnold Brooksbank and Son, chartered civil engineers, 48 Sunbridge Road, Bradford, 1. Tenders by Feb. 15.

Belfast. — Road works, field drainage, field gates and water supply at Dixon Estate Farm, Stormont, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 8.

Bridgend, Glam.—Improvement, resurfacing, etc., and laying of surface water sewers in Glan Ogwr Road, Bowham Avenue and Dilwyn Gardens, for U.D.C. Documents from the office of the Engineer and Surveyor, Council Offices, Glan Ogwr, Bridgend. Deposit £5 5s. Tenders by Feb. 11.

***Brierley Hill, Staffs.** — Improvement of Cottage Street for U.D.C. Deposit £3 3s. Tenders by Feb. 17.

***Cambridge.** — Chesterton Lane improvement for City Council. Deposit £3 3s. Tenders by Mar. 9.

***Cambridgeshire.**—Supply and laying fine cold asphalt for C.C. Tenders by Feb. 15.

***Carlisle, Cumb.** — Roads and sewers—Morton estate—stage 5 for City Council. Tenders by Feb. 20.

***Colne, Lancs.** — Road improvement—Keighley Road, for B.C. Deposit £5. Tenders by Feb. 17.

Colwyn Bay, Denbighs. — Tarspraying of approximately 115,000 sq. yd. of carriageway within the borough for B.C. Documents from H. Wilman, borough engineer, Whalley Range, Lansdowne Road, Colwyn Bay. Tenders by Feb. 11.

Cornwall.—Foundations, drainage, services, etc., for a Terrapin prefabricated building at St. Austell Boys' Grammar School, for C.C. Applications to the County Architect, County Hall, Truro, by Feb. 6. Deposit £1 1s. Tenders by Mar. 3.

***Coseley, Staffs.** — Dimmock Street extension for U.D.C. Deposit £2. Tenders by Feb. 13.

Cranbrook, Kent.—Construction of a new estate road together with ancillary works at Oaklands, Freight Estate, for R.D.C., including approximately 632yd. super. tarmacadam and 440ft. 1in. of kerbing. Documents from K. Barnes, architect, Council Offices, Hill House, Cranbrook. Deposit £2 2s., cheque payable to R.D.C. Tenders by Feb. 20.

***Cwmbran, Mon.**—Llantarnam Road diversion for Development Corporation. Deposit £2 2s. Tenders by Mar. 7.

Dudley, Worcs.—Reconstruction of Simms Lane kerb and footpath for B.C. The work comprises approximately 250 lin. yd. of kerbing and 500 sq. yd. of bitumen macadam footpaths. Applications to the Borough Engineer, The Council House, Dudley. Deposit £2 2s. Tenders by Feb. 15.

Durham. — Construction of Baths Bridge for City Council, which comprise the removal of the existing lattice steel footbridge over the River Wear between the baths and Pelaw Leazes, and the replacement by a new reinforced concrete bridge 110ft. span by 11ft. 6in. wide. Included in the works are the sundry works on the river bank and the regrading and resurfacing of the approach roads. Applications to L. G. Mouchel and Partners, consulting civil engineers, 24 Claremont Place, Newcastle upon Tyne, 2, before Feb. 6. Deposit £5 5s., payable to City Council. Tenders by Mar. 20.

East Sussex.—Making-up and sewering of roads at Peacehaven (Contract 2), for C.C., which include the construction of approximately 26,500 sq. yd. of 6in. reinforced concrete carriageways, 10,000 lin. yd. of foul and surface water sewers of 9in. and 6in. diameter, the provision of kerbs, tarmacadam footways and other ancillary works. Documents from M. C. Leney, county surveyor, County Hall, Lewes. Deposit £5 5s. Tenders by Feb. 21.

Felixstowe, Suffolk.—Making-up of part of Links Avenue (approximately 192 lin. yd.), for U.D.C. The works comprise surface water sewerage, kerbing and channelling, construction of hardcore carriageway with tarred macadam surfacing and in-situ concrete paving and incidental works. Documents from the Engineer and Surveyor, Town Hall, Felixstowe. Deposit £2 2s. Tenders by Feb. 14.

Grantham, Lincs.—Laying 700 sq. yd. of mastic asphalt surfacing on existing concrete foundation at London Road, for B.C. Documents from Borough Engineer, Guildhall, Grantham. Tenders by Feb. 10.

***Kent.**—Medway motor road, contracts 2, 3 and 4 for Ministry of Transport. Deposit £25 for contract 2, £50 for 3 and 4. Tenders by April 5.

***Kent.**—A.2/A.20 site investigation for C.C. Deposit £2 2s.

***King's Lynn, Norfolk.**—Making-up Estuary Road for B.C. Deposit £2 2s. Tenders by Feb. 22.

Lanarkshire. — East Kilbride New Town road 1 (Contract 10) for C.C., including site clearance, earthworks, provision of kerbing, carriageway, verges, footpaths, large pipe culverts, stream diversion, drainage and fencing. Surfacing works will be carried out by tthe County Council. The length of the scheme is approximately ¼ mile. Applications to the County Surveyor 19 Auchingramont Road, Hamilton, by Feb. 15.

Lancashire.—Formation of new macadam playground and car park at Horwich County Secondary School, for C.C. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 6.

Leicester.—Repair of nine private streets (Contract 23) for City Council. The work comprises re-laying slabbed footways and kerbing, construction new macadam carriageways, slabbed footways and kerbing, improving existing concrete roadways and other incidental work. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £1 1s. Tenders by Feb. 16.

***Llandudno, Caerns.**—Retread surfacing of the Marine Drive for U.D.C. Tenders by Feb. 22.

Leicester. — Northern area development. Following for City Council: (Contract 1) Housing estate carriageways and sewers—(a) Site clearance, approximately 25 acres; (b) lean-mix concrete carriageways, approximately 42,500 sq. yd.; (c) reinforced concrete carriageways, approximately 12,000 sq. yd.; (d) 9in. to 36in. diameter sewers, approximately 13,500 lin. yd., together with manholes and other incidental works; (e) surface water outfall sewer, 15in. to 60in. diameter, approximately 1,200 lin. yd., together with manholes and incidental works. (2) Flood relief works—(a) Improvement to approximately ¾-mile of existing brook and the construction of 800yd. of new channel, together with approximately 1,000ft. of reinforced concrete culvert and 4,000ft. of 8ft. diameter pipe. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £2 2s. each. Tenders by Feb. 27 for (1) and Feb. 20 for (2).

Lowestoft, Suffolk.—Making-up of Grayson Avenue (part) from the made-up portion to its junction with Cliftonville Road for B.C., including approximately 1,750 super. yd. of hardcore and gravel asphalt carriageway, together with concrete flag paving, kerb, and concrete channel and other ancillary works. Documents from the Borough Engineer's Office, 49 High Street, Lowestoft. Deposit £2 2s. Tenders by Feb. 15.

***Mansfield, Notts.** — Making-up Norbury Drive for B.C. Deposit £2 2s. Tenders by Feb. 24.

Middleton, Lancs.—Rhodes redevelopment, stage 1, for B.C. Construction of roads and sewers comprising approximately 5,500 sq. yd. of carriageway, 2,700 sq. yd. of footpath and 390 lin. yd. of sewers. Documents from the office of the Borough Engineer and Surveyor, Town Hall, Middleton. Deposit £2 2s. Tenders by Feb. 13.

Newcastle - under - Lyme, Staffs. — Brant Avenue site, Cross Heath: Construction of access road and sewer for B.C., including 44 lin. yd. 6in. sewer; two brick manholes; seven gullies and connections; 1,030 sq. yd. of carriageway foundation and two-coat machine-laid bituminous macadam surfacing; 320 lin. yd. of precast concrete kerbing; 640 sq. yd. of footway construction. Documents from the office of the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs. Tenders by Feb. 13.

Orpington, Kent.—Widening of Crofton Lane for U.D.C., with hardcore and tarmacadam construction for a length of approximately 633yd.; the reshaping and surfacing of the carriageway with tarmacadam for a further length of approximately 133yd., and the construction of approximately 210yd. of 9in. surface water sewer. The works consist of bulk excavation, new carriageway and footpath construction, drainage works, and accommodation work to private property. Documents from L. W. Freeman, engineer and surveyor, Civic Offices, The Walnuts, High Street, Orpington. Deposit £2. Tenders by Feb. 11.

Osgoldcross, Yorks.—Surface dressing of approximately 120,000 super. yd. of carriageway comprising class III and unclassified county roads, for R.D.C. Documents from the Engineer and Surveyor, Tanshelf House, 15 Front Street, Pontefract. Tenders by Feb. 13.

Perth and Kinross.—Stirling — Milnathort — Cupar — St. Andrews trunk road, Dollar —Milnathort section, route A.91. Improvement at Cowden Castle corners, for C.C. Works include reconstruction of approximately 650yd. of road to provide 24ft. wide carriageway with 9ft. verge on each side, one verge accommodating 6ft. wide footpath. Scheme includes about 13,500 cu. yd. of excavation, two large culverts, mass concrete retaining wall and miscellaneous other works. Documents from the office of County Surveyor, 57 Feus Road, Perth, whose representative will be at site on Feb. 7 at 11 a.m. to explain scheme. Deposit £5. Tenders by Feb. 24.

Plympton St. Mary, Devon. — Construction of approximately 1,775 sq. yd. of tarmacadam footpaths at Plympton St. Maurice housing site for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Plympton. Deposit £2 2s. Tenders by Feb. 18.

Port Talbot, Glam.—Private street works at St. Pauls Road, Aberavon, for B.C. The contract is in three parts, which are separate, and contractors may tender for all or any. In total the works comprise 1,500 super. yd. of road surfacing and 360 lin. yd. of 10in. by 5in. kerbing, together with ancillary works. Documents from G. V. Griffiths, borough engineer, Municipal Buildings, Port Talbot. Deposit £2 2s. Tenders by Feb. 13.

Radcliffe, Lancs.—Kerbing and resurfacing of footpaths on Outwood Road estate, using precast concrete kerbs and flags and cold asphalt on tarmacadam for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Radcliffe. Tenders by Feb. 7.

***Rochford, Essex.**—Construction of a close road (Contract 291) for R.D.C. Deposit £2. Tenders by Mar. 10.

Sevenoaks, Kent.—Carrying out the constructional work in connection with the Buckhurst Lane widening and car park. Documents from the Engineer and Surveyor, Council Offices, Argyle Road, Sevenoaks. Deposit £2 2s. Tenders by Feb. 17.

Shrewsbury, Salop.—Roadworks at Greenhill Avenue, for B.C., comprising the following approximate quantities: 125 lin. yd. concrete kerb and channelling; 370 sq. yd. stone, foundation and bituminous surfacing; 240 sq. yd. concrete flagging. Documents from the Borough Surveyor, Guildhall, Shrewsbury. Deposit £1 1s. Tenders by Feb. 27.

Somerset.—Repair of approximately 1,750yd. of road 12ft. wide on North Hill, Minehead, for C.C. Documents from R. W. Dale, county planning officer, 41 Upper High Street, Taunton. Tenders by Feb. 17.

Southborough, Kent.—Surface dressing to roads for U.D.C., and supply and delivery of cold emulsion, tarred Kent ragstone, sand, unscreened ballast, crushed shingle and Portland cement. Documents from the Surveyor, Council Offices, Southborough, Tunbridge Wells. Tenders by Feb. 14.

***Stoke-on-Trent, Staffs.** — Making-up of private streets for City Council. Deposit £3. Tenders by Feb. 8.

Sunderland, Dur. — Construction of roads and sewers on a site of approximately 43 acres for B.C. Documents from Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £5 5s. Tenders by Feb. 17.

Surrey.—Following for C.C.: (a) New Road, Bagshot—haunching, widening and provision of surface water drainage (approximately 600 lin. yd.); (b) Lucas Green Road, West End, Chobham—alterations to junction layout with Ford Road. Documents from County Engineer, County Hall, Kingston-upon-Thames. Tenders by Feb. 11.

Sutton and Cheam, Surrey.—Reconstruction and realignment of approximately 785 lin. yd. of Central Road, Worcester Park, for B.C., entailing breaking out of existing road and footpath, construction of lean-mix concrete base and asphalt surfacing, kerb, footpath, drainage and other ancillary works. Documents from C. Needham, borough engineer and surveyor, Municipal Offices, Sutton. Deposit £3 3s. Tenders by Feb. 24.

Wakefield, Yorks.—Construction of roads and sewers—Huntsman Fold, Flanshaw Lane housing scheme for City Council. Documents from the office of the City Engineer, Town Hall, Wakefield. Tenders by Feb. 15.

Watford, Herts. — Private street works, Coningesby Drive, for B.C., comprising the laying of approximately 230 lin. yd. of precast concrete kerbing, approximately 288 lin. yd. of precast concrete channels, approximately 245 sq. yd. of artificial stone paving, the shaping up of the existing carriageway and surfacing with approximately 708 sq. yd. of bituminous surface and other appurtenant works. Documents from F. C. Sage, borough engineer and surveyor, Town Hall, Watford. Deposit £2 2s. Tenders by Feb. 8.

Witney, Oxon. — Construction of access roads, base slabs and ancillary works to garages at the undermentioned sites for R.D.C.: The Fosseway, Brize Norton; Cook's Corner, Freeland; Marlborough Place, Eynsham. Also for the siteworks and erection of two garages at Alvescot. Documents from the Engineer and Surveyor, 36 Market Square, Witney. Tenders by Feb. 14.

Wellingborough, Northants. — Surfacing of roads, construction of footpaths and incidental works, Park Street, Poplar Place, Windmill Close, Woollaston (Contract 253), for R.D.C. Documents from C. L. Hanwell, surveyor, Rural Council Offices, 20 Oxford Street, Wellingborough. Deposit £2 2s. Tenders by Feb. 23.

West Lothian.—Site preparation, drainage and tarmacadam works in connection with the erection of civil defence training premises at Rivaldsgreen, Linlithgow, for C.C. Applications to the County Architect, County Buildings, Linlithgow, by Feb. 4.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Basingstoke, Hants. — Construction of approximately 1,800 lin. yd. of cast-iron sewer consisting of 9in., 12in. and 15in. diameter pipes, together with brick and precast concrete manholes and other ancillary works at Houndmills industrial estate, for B.C. Documents from the Borough Surveyor, Municipal Buildings, Basingstoke. Deposit £2 2s. Tenders by Feb. 9.

Cheadle and Gatley, Ches. — Grove Lane surface water sewer for U.D.C., including the laying and supplying of approximately 300 lin. yd. of 12in. pipes in Grove Lane, Cheadle Hulme, together with ancillary works. Documents from the Engineer and Surveyor, Town Hall, Cheadle. Deposit £2 2s. Tenders by Feb. 18.

Dorking and Horley, Surrey.—Sewer reconstruction at Balcombe Road, Horley, for R.D.C. Work comprises reconstruction of approximately 800yd. of 12in. to 6in. diameter sewers and 30 manholes, and ancillary works. Documents from the Council Offices, Massetts Road, Horley. Deposit £2. Tenders by Feb. 13.

***Finchley, Middx.**—Surface water sewers for B.C. Deposit £2. Tenders by Feb. 27.

Grantham, Lincs.—Laying of approximately 116 lin. yd. of 9in. and 12in. surface water sewers and ancillary work at Bridge End Road, for B.C. Documents from Borough Engineer's Department, Guildhall, Grantham. Tenders by Feb. 13.

***Isle of Axholme, Yorks.**—West Butterwick sewerage scheme (Contracts 1 and 2) for R.D.C. Deposit £3 3s. each. Tenders by Feb. 23.

***Leicester.**—Sewage disposal (Contract 4A) for City Council. Deposit £10 10s. Tenders by Mar. 17.

Musselburgh, Midlothian.—Newhailes drainage (contract 2) for B.C., including laying about 140 lin. yd. of 9in. diameter f.c. sewer; the construction, in reinforced concrete, of a small underground pump house; and 10 lin. yd. of 4in. diameter c.i. rising main, together with ancillary works. Applications to D. A. Donald and Wishart, consulting engineers, 233 West Regent Street, Glasgow, C.2, by Feb. 4. Plans also seen at the offices of David Taylor, town clerk, Municipal Offices, Musselburgh.

Newburn, Northumb.—Chapel House estate: Off-site sewers at Walbottle for U.D.C., including construction of approximately 1,400yd. of 9in. to 15in. diameter and 950yd. of 27in. to 42in. diameter concrete pipe sewers with overflow chamber, manholes and other incidental works. Documents from the Engineer, Council Offices, Newburn. Deposit £5 5s. Tenders by March 6.

Newbury, Berks. — Enlargement of the existing sewage disposal works at Bardown, Chieveley, for R.D.C. Documents from T. J. Fisher, clerk to the Council, Council Offices, 50 Bartholomew Street, Newbury. Tenders by Feb. 8.

Osgoldcross, Yorks.—Sewerage and sewage disposal works, contract 4, for R.D.C. Apply by Feb. 20. Deposit £10.

***Reading, Berks.**—Kiln Road foul sewer for B.C. Deposit £2 2s. Tenders by Mar. 7.

***Saltburn and Marske-by-the-Sea, Yorks.**—West Marske sewerage for U.D.C. Deposit £5 5s. Tenders by Mar. 6.

Slough, Bucks.—Myrke ejector—rising main. Excavating, laying and jointing, in shallow trench across open fields, approximately one-third of a mile of 4in. diameter spun-iron pipes to be supplied by the Council, for B.C. Documents from Borough Engineer, Town Hall, Slough. Deposit £2 2s. Tenders by Feb. 23.

***Southend-on-Sea, Essex.** — Airport extensions for B.C. Apply by Feb. 17. Deposit £2.

South Kesteven.—Connection of drainage systems at Baston, Langtoft and Deeping St. James' Schools to the Council's sewer, for R.D.C. Applications to the Chief Public Health Inspector, 41 North Street, Bourne, Lincs.

***Stourbridge, Worcs.**—Diversion of eastern main sewer for Main Drainage Board. Deposit £2 2s. Tenders by Feb. 16.

Stranraer, Wigtowns.—Laying of 50yd. of 18in., 230yd. of 15in. and 80yd. of 12in. diameter concrete pipes and other relative work for B.C. Documents from Gilbert Thomson and Son, chartered civil engineers, 164 Bath Street, Glasgow, C.2. Deposit £3 3s. cheque. A representative of the engineers will meet intending offerers beside the harbour master's office on Feb. 7, at 12.15 p.m. to point out the proposed works. Tenders by Feb. 15.

***Sutton and Cheam, Surrey.**—Drainage and roadworks for B.C. Deposit £2 2s. Tenders by Feb. 28.

***Thurrock, Essex.**—Surface water drainage scheme, Dell Hole, Stifford, for U.D.C. Deposit £2 2s. Tenders by Feb. 7.

Truro, Corn.—Alterations and extensions, viz: new bathroom, hot water supply, flush lavatories and drainage at 1-7 Brooklyn Terrace, St. Mawes, for R.D.C. Applications to the Housing Manager's Office, Rural Council Hall, River Street, Truro. Tenders by Feb. 7.

***Watford, Herts.**—Nascot Wood sewerage scheme Stage 2 for B.C. Deposit £2 2s. Tenders by Feb. 13.

STREET LIGHTING

Dunbartonshire.—Dismantling and removal to Leven Street Stores, Alexandria, of 96 existing gas lamps in the Vale of Leven and Renton special lighting district, and the necessary excavating to gas mains to allow for plugging of services by the Scottish Gas Board for C.C. Documents from Neil Macdonald, County Sanitary Inspector and Lighting Superintendent, 124 Bridge Street, Alexandria. Tenders by Feb. 10.

Golborne, Lancs.—Supply only of concrete and cast-iron columns, class B, totally enclosed lanterns, sodium discharge lamps and control gear for 188 lighting units, for U.D.C. Documents from J. B. Hoyle, engineer and surveyor, Council Offices, Lowton, near Warrington. Deposit £2 2s. Tenders by Feb. 27.

***Ilminster, Som.**—Erection of lamps on A.303 for U.D.C. Tenders by Feb. 21.

Salford, Lancs.—Supply of the following during the period Apr. 1, 1961, to Mar. 31, 1962, for City Council: (1) 15ft. concrete columns; (2) 60 watt sodium vapour totally enclosed lanterns with ancillary equipment; (3) 100-150 watt class B totally enclosed lanterns; (4) time switch and fuse boxes; (5) synchronous time switches (solar dial). Applications to the Street Lighting Superintendent, 9 Frederick Road, Pendleton, Salford 6. Tenders by Feb. 21.

***Stoke-on-Trent, Staffs.**—Conversion of gas to electric lighting, phase 1, for City Council. Deposit £2. Tenders by Feb. 8.

Taunton, Som.—Supply of class A and B street lighting equipment, including steel columns, lanterns, lamps and control gear, for B.C. Documents from the Borough Engineer, St. Paul's House, Taunton.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Altrincham, Ches.—Alterations and extensions to group office accommodation at maternity hospital for Manchester Regional Hospital Board—Spooners (Hull), Ltd., Stoneferry, Kingston-upon-Hull, £4,308 (recommended, subject to Ministry approval).

Birmingham.—Construction of a biology block at Edgbaston for the University of Birmingham—John Laing Construction, Ltd., Mill Hill, London, N.W.7, estimated cost £1½m. Playne and Lacey, architects, 19 Queen Anne's Gate, London, S.W.1, and Ove Arup and Partners, consulting engineers, 13 Fitzroy Street, London, W.1. Work just commenced.

Birmingham. — Following for the Regional Hospital Board: Conversion of sanitary wing to provide staff changing facilities at Uffculme Psychiatric Early Treatment Centre—W. Street and Sons, Ltd., 164 Bishop Street, Birmingham, 5, £3,676; modernisation of ward C.4 at Dudley Road Hospital—Froggart and Prior, Ltd., 16 Lionel Street, Birmingham, £2,766; provision of twin operating theatre suite at Selly Oak Hospital—B. Whitehouse and Sons, Ltd., 247 Monument Road, Edgbaston, Birmingham, 16, £110,781; building work for provision of bed lift at Sorrento Maternity Hospital—Rexford (Builders), Ltd., Vulcan Road, Solihull, £8,798; conversion of part of maids' home into nursing quarters at Dudley Road Hospital—C. Green and Sons, Ltd., 132 Monument Road, Edgbaston, Birmingham, £1,499 (recommended).

Brighton, Sussex.—Following for B.C.: Improvements to cottages at Saddlescombe Farm—180 A and B schedule 1—R. A. V. Taylor, £2,054 (recommended, subject to Ministry approval); Satterley and Farrell, £2,477; Messrs. Strevetts, £2,763; G. Watts and Co., Ltd., £2,331; A.J. Construction, Ltd., £2,509; G. J. King and Son, Ltd., £2,550.

One hundred and eighty C, D and E, schedule 2—G. Watts and Co., Ltd., 4 Trafalgar Terrace, Brighton, 1, £2,471 (recommended, subject to Ministry approval); R. A. V. Taylor, £3,172; Satterley and Farrell, £2,740; Messrs. Strevetts, £2,624; A.J. Construction Co., Ltd., £3,101; G. J. King and Son, Ltd., £3,151.

1 and 2 Pond View Cottages, schedule 3—A.J. Construction Co., Ltd., 9 Marlborough Place, Brighton, 1, £1,079 (recommended, subject to Ministry approval); R. A. V. Taylor, £1,420; Satterley and Farrell, £1,085; Messrs. Strevetts, £1,998; G. Watts and Co., Ltd., £1,280; G. J. King and Son, Ltd., £1,130.

1 and 2 Croft Cottages, schedule 4—A.J. Construction Co., Ltd., £1,200 (recommended, subject to Ministry approval); R. A. V. Taylor, £1,514; Satterley and Farrell, £1,261; Messrs Strevetts, £2,093; G. Watts and Co., Ltd., £1,365; G. J. King and Son, Ltd., £1,251.

Erection of a public mortuary and house for the caretaker at the Extra Mural Cemetery—T. J. Braybon and Son, Ltd., Princes House, North Street, Brighton, 1, £25,627 (recommended); McKellar and Westerman, Ltd., £26,648; George Comber and Co., £27,399; J. W. Ridge, Ltd., £28,436; Field and Cox, Ltd., £28,840.

Bromsgrove, Worcs.—Following for Birmingham Regional Hospital Board: Improvements to nurses' home at All Saints' Hospital — David Charles, Ltd., 45 Green Lane, Birmingham, 9, £5,434; provision of domestic training unit at Lea Hospital—W. Weaver, Ltd., 22 Birmingham Road, Bromsgrove, £6,358 (recommended).

Burnley, Lancs.—Redevelopment of the Pickup Croft area of central Burnley, comprising shops and offices, cafeteria and licensed bar for Massey's Burnley Brewery, Ltd., and a social club for Joseph Lucas, Ltd. Hubbard Ford, architect, 24 Cornfield Road, Eastbourne—Mullen and Durkin, Ltd., Trafalgar Street, Burnley. Estimated cost £100,000.

Burton-upon-Trent, Staffs. — Provision of gynaecological department at the General Hospital for Birmingham Regional Hospital Board—Stanton and Holmes, Ltd., £35,141 (recommended).

Buxton, Derbys.—Erection of a clinic at Bath Road, for C.C.—Direct Labour, £18,684.

Coventry.—Redecoration and washing down at Whitley Hospital for Birmingham Regional Hospital Board — Whiteman and Son, Ltd., 73 Folehill Road, Coventry, £1,766 (recommended).

Croydon, Surrey.—Erection of an office block, consisting of seven storeys and garage facilities at 9 Dingwall Avenue, for the Rodwell Group, Ltd. Raymond Spratley and Partners, architects, 9 Hertford Street, London, W.1—Walter Lawrence and Son, 31 Sun Street, London, E.C.2, estimated cost £250,000.

Croydon, Surrey.—Erection of a three-storey office spur block at Park Lane for Advance Freehold Investments, Ltd.—F. R. Hipperson and Son, Ltd., Invicta House, Wantz Road, Dagenham, Essex. Donald Rowswell and Partners, architects, 11 George Street, Croydon; Davis Bill and Partners, quantity surveyors, 15 George Street, Croydon; H. L. Waterman and Partners, structural engineers, 84 Eccleston Square, London, S.W.1. Work commenced.

Dartford, Kent.—Erection of a twin operating theatre suite and surgical ward at Joyce Green Hospital for South East Metropolitan Regional Hospital Board—A. F. Taylor, Ltd., 70 East Hill, Dartford, £60,364 (recommended).

Daventry, Northants.—Erection of 20 garages and the construction of an access road and forecourt for B.C. — Midland Builders (Daventry), Ltd., Ashby Road, Daventry (recommended, extension of contract).

Durham. — Conversion of Stillington County School into village hall for C.C.—Dinsdale Construction, Ltd., Middleton St. George, £2,638.

Ealing, Middx. — Tenders received for the following for B.C.: Provision of new services at Horsenden Junior and Infants' School—George Holland and Sons, £5,486; T. Jones (Harrow), Ltd., £5,748; E. J. Lacey and Co., £5,980; G. Moss and Sons, Ltd., £4,777; Norman Sinclair, Ltd., £7,932.

Construction of a science laboratory at Stanhope Secondary Boys' School—B. and B. Contractors, Ltd., £2,113; W. J. Dickens, Ltd., £2,400; Ferris Bros., Ltd., £2,430; George Holland and Sons, £2,328; E. J. Lacey and Co., Ltd., £2,455; G. Moss and Sons, Ltd., £2,439.

Provision of a servery at Perivale Junior and Infants' School — Bristow and Darlington, Ltd., £2,896, W. J. Dickens, Ltd., £3,285; Ferris Bros., £3,198; Hillingdon Decorators, Ltd., £3,077; G. Moss and Sons, Ltd., £3,329; White and Thomas, Ltd., £3,600.

Alterations to classroom to provide science accommodation at Cospon Secondary Girls' School — Bristow and Darlington, Ltd., £3,410; Hillingdon Decorators, Ltd., £3,191; T. Jones (Harrow), Ltd., £3,690; E. J. Lacey and Co., Ltd., £3,453; Norman Sinclair, Ltd., £3,668; White and Thomas, Ltd., £3,403.

Egham, Surrey.—Erection of extensions to the Shoreditch Training College and maintenance work to the existing buildings for L.C.C. — Tersons, Ltd., 4 Dollis Park, London, N.3, £511,499 (accepted); Rush and Tompkins, Ltd., £514,402; Kirk and Kirk, Ltd., £514,519; Leslie and Co., Ltd., £523,456; Y. J. Lovell (Bucks.), Ltd., £523,671; Gee, Walker and Slater, Ltd., £529,861; J. Lawson and Co., Ltd., £532,843; M. J. Gleeson (Contractors), Ltd., £536,172; Token Construction Co., Ltd., £559,400.

Greenwich.—Erection of stage I of the development of St. Alfege's Hospital for South East Metropolitan Regional Hospital Board — John Greenwood, Ltd., King William Street House, Arthur Street, London, E.C.4. £27,654 (recommended).

Guildford, Surrey. — Internal repairs and redecorations at Divisional Headquarters, Guildford Police Station, for Standing Joint Committee—H. W. Frampton and Co., Ltd., 75 North Street, Guildford, £950 (recommended).

Hartlepool, Dur.—Erection of 36 lock-up garages at Ridlington Way for B.C.—Close Bros., Ltd., West Hartlepool, £4,248.

Hebburn, Dur.—Erection of large assembly shop at the Bedewell Works of Baker Perkins, Ltd.—builders—Bewley and Scott, Ltd., Dunston-on-Tyne; steelwork—Wright Anderson and Co., Ltd., Gateshead; heating —Selborne Engineering Co., Ltd., Selborne Gardens, Newcastle upon Tyne.

Kenton, Middx.—Erection of All Saints R.C. Church at Kenton High Road. John E. Sterrett, architect, 21a Ashley Place, London, S.W.1—Hussey Bros. (Builders), Ltd., London, W.2.

Kidderminster, Worcs.—Building work for provision of sub-station at Kidderminster General Hospital for Birmingham Regional Hospital Board—Five Oaks Estates, Ltd., Birmingham New Road, Coseley, £1,083 (recommended).

Lambeth.—Construction at St. Martin's estate of a library block, with the library on the ground floor and basement and four two-room flats above, for L.C.C. — Anglo-Scottish Construction Co., Ltd., 112a Coombe Lane, London, S.W.20, £35,422 (accepted); Thomas and Edge, Ltd., £36,270; R. Mansell, Ltd., £36,293; T. R. Roberts (Builders), Ltd., £36,476; Kirk and Kirk, Ltd., £36,870; Rowley Bros., Ltd., £36,900; Charles R. Price, £38,277; William Mills and Sons, Ltd., £43,256. The comparable estimate of the appointed architects, C. Lovatt Gill and Partners, is £35,885.

Lancaster.—New kitchen and bed lift at Royal Albert (Rodgett Infirmary) Hospital for Manchester Regional Hospital Board—R. L. Dilworth, Ltd., Damside Street, Lancaster, £28,216 (recommended, subject to Ministry approval).

Leek, Staffs.—Provision of sanitary annexes (phase II) at St. Edward's Hospital, Cheddleton, for Birmingham Regional Hospital Board—H. J. Emery, Ltd., Bedford Works, Sackville Street, Basford, Newcastle-under-Lyme, £58,186 (recommended).

Letchworth, Herts.—Erection of 32 brick garages and construction of all drainage works, access roads, garage hardstandings, etc., on three garage sites on the N.E. corner of the Grange estate for U.D.C. E. L. Johnson, engineer and surveyor—B. G. Cox, Ltd., Alpha Works, Meadow Way, Letchworth, £6,616 (accepted); A. G. Baxter, £7,001; F. R. and O. L. Brooke, £7,416; Weston Building Co., £7,563; Hodgson Bros., £11,484. Work has commenced.

Middlesex.—Construction of a six-pen farrowing house and drainage system at Holding 6, Burrows Hill Close estate, for C.C.—Blight Bros. (Builders), Ltd., 26 Hanworth Road, Feltham, £1,400 (recommended).

Newcastle upon Tyne.—Factory additions, Water Street and Penn Street for Austin Lifts, Ltd. Tasker and Partners, architects, 25 New Bridge Street, Newcastle upon Tyne —Hastie D. Burton, Ltd., King Street, North Shields. Garage, workshops, etc., at Cremona Park for Minories Garages, Ltd. Waring and Netts, architects, 1 Lansdowne Terrace East, Newcastle upon Tyne—Thomas Curry and Sons, Meldon Street, Newcastle upon Tyne.

Nuneaton, War.—Extensions and alterations to King Edward VI Grammar School, for the Governors—Alfred R. Lane, Ltd., St. Patricks Road, Coventry, estimated cost £110,000. Essex, Goodman and Suggitt, architects, Waterloo House, 20 Waterloo Street, Birmingham, 2, O. A. Wainwright and Partners, quantity surveyors, 63 Temple Row, Birmingham, 2, and Alan Marshall and Partners, consultant structural engineers, Smithfield House, Birmingham, 5.

Nuneaton, War. — Improvements to pre-war houses for B.C.: Twenty-four, contract A—H. Wills, 67 Merevale Avenue, Nuneaton, £4,842; 17, contract B—Wood and Meller, 17 Golf Drive, Nuneaton, £4,837; 15, contract C—A. G. Wale, 122 Oakdene Crescent, Nuneaton, £3,001 (recommended).

Paddington.—Erection of a seven-storey hotel extension at 20-26 Talbot Square and 1-24 Conduit Place, for Stephen Court, Ltd.—Tersons, Ltd., Dollis Park, London, N.3. J. Brewster, architect, 16 Porchester Place, W.2. Cyril I. Silver, quantity surveyor, 42 Baker Street, W.1. P. R. Rose, consulting engineer, 7 Connaught Place, W.2. Estimated cost £260,000. Work commenced.

Pontypool, Mon.—Social and sports centre, together with sewers, stormwater drainage and site clearance, at Croesyceiliog, near Pontypool, for R.D.C. Thomas and Morgan and Partners, consulting engineers, 23 Gelliwasted Road, Pontypridd—G. E. Wallis and Sons, Ltd., Cambrian Chambers, Newport, £23,981. Work to commence this month.

Potters Bar, Middx.—Erection of a general-purpose building at Chase Farm for C.C.—Bunyan Bros., Rectory Lane, Watton-at-Stone, Herts., £2,548 (recommended).

Richmond, Surrey.—Reconstruction of the foyer of the Community Centre for B.C.—Direct Labour. Estimated cost £2,000.

Shrewsbury, Salop. — Alterations to casualty department and provision of bridge to connect the pathological laboratory with outpatients' department at the Royal Salop Infirmary for Birmingham Regional Hospital Board—Hotchkiss and Townsend, Shrewsbury, £9,992 (recommended).

Solihull, War.—(a) Erection of economiser house, alterations to boilerhouse and heating services, and (b) alterations to A block at Solihull Hospital for Birmingham Regional Hospital Board—(a) Davies Bros. (Builders), Ltd., 53 Walford Road, Birmingham, 11, £2,113, and (b) Rexford (Builders), Ltd., Vulcan Road, Solihull, £31,734 (recommended).

South Shields, Dur.—Erection of offices and workshops, Newcastle Road, for the North-Eastern Electricity Board. L. J. Couves and Partners, architects, Grainger Chambers, Hood Street, Newcastle upon Tyne—Kendall Cross, Ltd., West End, Ponteland, Northumberland.

Stafford.—Following at St. George's Hospital for the Birmingham Regional Hospital Board: Modernisation of central kitchen —H. Wood and Sons, Ltd., 39 Oulton Road, Stone, £8,289; builder's work for heating services centralisation—V. Silvester and Son, Ltd., Stone Road, Stafford, £1,678 (recommended).

Stockport, Ches.—Reconstruction of bridges between ward blocks and installation of new bed lift at Stepping Hill Hospital for Manchester Regional Hospital Board—Cooper Bros. and John Clayton, Ltd., Catherine Street, Macclesfield, £47,239 (recommended, subject to Ministry approval).

Stoke-on-Trent, Staffs.—Rebuilding the Waterloo Inn at The Strand corner of Barford Street, Longton, for Worthington and Co., Ltd.—W. Leake and Co., Ltd., Sneyd Street, Sneyd Green, Stoke-on-Trent, estimated cost £19,000. Forshaw, Greaves and Partners, architects, 11 King Street, Newcastle-under-Lyme, and Sutcliffe, Son and Watson, quantity surveyors, Madeley Manor, near Crewe, Ches. Work commencing Mar.

Stoke-on-Trent, Staffs.—Preliminary foundations for accident unit at North Staffordshire Royal Infirmary at Birmingham Regional Hospital Board—C. Cornes and Son, Lichfield Street, Hanley, Stoke-on-Trent, £7,832 (recommended).

Sunderland, Dur.—Alterations to the sanitary annexes at General Hospital for Newcastle upon Tyne Hospital Board—G. H. Plemper, Ltd., Old Chester Road, Sunderland, £4,800.

Twickenham, Middx. — Erection of a three-storey block, comprising offices on the first and second floors, showrooms on the ground floor and car park at 17 Heath Road for Phelps, Ltd., 40-42 King Street, Twickenham —Howard Farrow, Ltd., Highfield Road, Golders Green Road, London, N.W.11, estimated cost £37,000. Broadway and Malyan, architects, 34 Baker Street, Weybridge, Surrey; R. W. Monk, quantity surveyor, 11a Queen's Road, Wimbledon, Surrey.

Tynemouth, Northumb.—Following for B.C.: Thirty-four garages on the Chirton estate and at Beadnell Avenue—A. Armstrong, Cullercoats; 21 garages, Whitehouse Lane, Lynn estate—R. Jordan, Ltd., North Shields. Erection of public conveniences at the north end of the Long Sands—S. Storer, Reed Street, North Shields, £8,540.

Walthamstow, Essex. — Following for B.C.: Repair and improvement of 3 Pembroke Road—Coulter and Reynolds, Ltd., 59 Court Way, Colindale, N.W.9, £1,837; remodelling of lavatories at Margaret Brearley E.S.N. and Joseph Clarke P.S. Schools—S. Newlyn and Son, Ltd., Commerce House, Church Road, E.2, £3,350 (recommended).

West Bromwich, Staffs.—Provision of covered way to children's ward at Hallam Hospital for Birmingham Regional Hospital Board —Five Oaks Estates, Ltd., Birmingham New Road, Coseley, £8,940 (recommended).

Willesden, Middx. — Repairs to following premises for B.C.: 37 Shoot-up Hill—P. R. Atkins, 8 Church Road, London, N.W.10, £950; 20 and 20a Station Road and 22 and 22a Station Road—W. Richards and Sons (Hendon), Ltd., 13 Sutton Parade, London, N.W.4, £961 and £891, respectively; 26 Stracey Road—W. T. Holyday, 6 Tring Avenue, Wembley, £1,130; (a) 15, (b) 17 and (c) 19 Harvist Road — Ferris Bros., 104 Churchfield Road West, London, W.3, (a) £740, (b) £925 and (c) £972 (recommended).

Wolverhampton, Staffs.—Erection of a home for old people at the Broadway, Bushbury, for B.C.—Direct Labour, £67,752.

Wolverhampton, Staffs.—Provision of sterilising facilities and improvements to gynæcological wards and staff accommodation at the Women's Hospital and additional classrooms for nurses' training school at New Cross Hospital, for Birmingham Regional Hospital Board—Fullard Bros., 164 Caledonia Road, Wolverhampton, £7,726 and £2,862, respectively (recommended).

Worcester.—Provision and erection of prefabricated hut at Powick Hospital for the Birmingham Regional Hospital Board—Vic Hallam, Ltd., Valley Works, Langley Mill, Nottingham, £3,012 (recommended).

Wortley, Yorks. — Supply and erection of multiple garages on sites at Burncross, near Chapeltown, and Loxley, near Sheffield, for R.D.C.—Bell and Webster, Hoddesdon, Herts.

DEMOLITION

Bradford, Yorks. — Demolition of property known as Tofts Farmhouse, Wyke, for City Council—E. Daynes, Bradford, £42 (recommended).

Middlesex. — Breaking up and disposing of reinforced concrete at Mogden Works for C.C.—London Demolition Co., Ltd., 575-7 London Road, Isleworth, £590 (recommended).

Mitcham, Surrey.—Demolition of the Beeches (part), London Road, for B.C.—S. A. Spicer, 13 Selby Road, Carshalton, £166 (recommended); Speirs, Ltd., £378.

Sutton and Cheam, Surrey.—Demolition of 27 Benhill Wood Road, Sutton, for B.C.—Demolition and Construction Co., Ltd., 3 St. James's Square, London, S.W.1, £263 (recommended).

Walthamstow, Essex.—Demolition of properties at (a) Brunner Road, Side Road and South Grove clearance area and (b) 83/87 Hoe Street, 10 and 23/33 The Drive and outbuildings at Kings Farm, Wadham Road, for B.C.—Clarke (Plant Hire) Co., Ltd., 1a Tower Road, Epping, Essex, £850, and A. R. Wright and Son, Ltd., 18a Coopers Lane, London, E.10, £762 (recommended).

ELECTRICAL

Birmingham. — Following for the Regional Hospital Board: Changeover of electrical installation in laundry from d.c. to a.c. at Monyhull Hospital—Sid Dagnall and Son, Ltd., 2 Fulham Road, Birmingham, 11, £631; electrical services for the modernisation of ward C4 at Dudley Road Hospital, and accommodation for dispensary and pathological department at Yardley Green Hospital—Etna Lighting and Heating Co., Ltd., 293a Broad Street, Birmingham, £1,768 and £1,713, respectively; electrical services for provision of artificial limb and appliance centre at Selly Oak Hospital and Midland Centre for Neuro-surgery—F. Burton, 266 Corporation Street, Birmingham, 4, £5,749, and Syd. Davis (West Bromwich), Ltd., 45 High Street, West Bromwich, £981, respectively; provision of sub-station at Little Bromwich General Hospital—W. Street and Sons, Ltd., 164 Bishop Street, Birmingham, 5, £3,783 (recommended).

Brighton, Sussex.—Supply and installation of electrical equipment for the traffic signal system at the Clock Tower for B.C.: Automatic Telephone and Electric Co., Ltd., Strowger House, 8 Arundel Street, London, W.C.2, £2,484 (recommended, subject to M.T. approval).

Bromsgrove, Worcs. — Electrical services for improvements to X-ray department at the

General Hospital for Birmingham Regional Hospital Board—Whittaker Bros., Ltd., 192 Wolverhampton Street, Dudley, £1,193 (recommended).

Burton-upon-Trent, Staffs.—Electrical services for gynæcological department at the General Hospital for Birmingham Regional Hospital Board—W. T. Parker, Ltd., 113 Station Street, Burton-upon-Trent, £3,301 (recommended).

Ealing, Middx.—Electrical rewiring at St. Ann's Secondary Girls' School for B.C.—F. Summers, 775 Great Cambridge Road, Enfield, £2,493 (recommended).

Hartlepool, Dur.—Electrical installation in 48 houses in the Throston area for B.C.—John Westmorland and Co., 1 Northgate, Hartlepool, £1,841.

Shrewsbury, Salop.—Electrical services in connection with alterations to casualty department, etc., at Royal Salop Infirmary for Birmingham Regional Hospital Board—T. Wood and Son (Chester), Ltd., 38 Bridge Street, Chester, £1,337 (recommended).

Solihull, War.—Electrical services for block A at Solihull Hospital for Birmingham Regional Hospital Board—F. Burton, 266 Corporation Street, Birmingham, 4, £5,712 (recommended).

Southampton.—Renewal of electrical installation at Millbrook Secondary Boys' School for B.C.—Dicks, Ltd., 149 High Street, Winchester, £5,284 (recommended).

Tynemouth.—Improvements to the electrical system at the Western Junior Mixed and Infants' School for E.C.—Cairns (Newcastle), Ltd., Newcastle upon Tyne, £649.

Wolverhampton.—Following for Birmingham Regional Hospital Board: Electrical services for the modernisation of Dartmouth and McLaren wards and provision of electrical ring main distribution system (phase I) at Royal Hospital—Atkin and Evans, 27a Darlington Street, Wolverhampton, £2,402, and C. A. and W. J. Postings, Union Street, Wolverhampton, £1,080, respectively; electrical work for provision of sterilising facilities and improvements to gynæcological wards at the Women's Hospital—J. T. Jarvis, Ltd., 12 Rosemary Avenue, Goldthorn Park, Wolverhampton, £1,672 (recommended).

Worcester.—Electrical mains reorganisation at Powick Hospital for the Birmingham Regional Hospital Board—Abell and Smith's Electrical Co., Ltd., 5 Queen Street, Droitwich, £21,049 (recommended).

FENCING

Chigwell, Essex.—Fencing about 240 lin. yd. at Rectory Lane children's playground, Loughton, for U.D.C.—Blakeney and Strange (Fencing), Ltd., St. Albans, Herts., £284.

GAS AND WATER SUPPLY

Belford, Northumb.—Work on the Glororum reservoir and Seahouses outfall sewer schemes for R.D.C.—C. G. Inkster, Alnwick, £16,655 and £6,258, respectively (recommended).

Liverpool.—Work on the water main between Cuerdley and Speke for supplying the needs of the Ford factory at Halewood and housing developments in the Speke area, for City Council—Direct Labour. Estimated cost £400,000.

Ploughley, Oxon.—Re-laying of approximately 1,600yd. of 3in. diameter water main in the village of Piddington, Bicester, for R.D.C. J. W. Martin, engineer and surveyor—The Bicester Stone Co., Ltd., Stratton Audley, Bicester, Oxon, £4,000.

Southampton.—Following for Otterbourne pumping station for B.C.: Borehole pumping plant and control apparatus — British Pleuger Submersible Pumps, Ltd., Birmingham, £16,895; straight pipes and special castings — Stanton Ironworks Co., Ltd., Nottingham, £13,001; steel pipes and couplings—South Durham Iron and Steel Company, Stockton-on-Tees, £702; sluice valves and air valves—J. Blakeborough and Sons, Brighouse, £1,141; high voltage electricity supply—Southern Electricity Board £8,615 (recommended).

Totnes, Devon.—Provision of water mains at Bridgetown Hill and Weston Lane for B.C.—P. W. Wilkins and Son, Ltd., Brunswick Square, Torquay (recommended).

Wellington, Salop.—Modification and extension of cold water supply system at Wrekin Hospital for Birmingham Regional Hospital Board—G. N. Haden and Sons, Ltd., Holmer Road, Hereford, £4,586 (recommended).

HEATING AND VENTILATING

Birmingham.—Installation of steam mains at St. Chad's Hospital and reconditioning of induced draught fan at Summerfield Hospital, for Regional Hospital Board—H. Clark and Son, 656a Allesley Old Road, Coventry, £1,050 and Davidson and Co., Ltd., Exchange Buildings, New Street, Birmingham, £1,580, respectively (recommended).

Birmingham.—Following for the Regional Hospital Board: Provision of economic boilers for new boiler house at Rubery Hill Hospital—Ruston and Hornsby, Ltd., 190 Broad Street, Birmingham, 15, £20,850; centralisation of mechanical engineering services (stage 2) and alterations and extensions to service ducts and work in connection with heating and hot water installation (stage 2) at Highcroft Hospital—Hopes Heating and Engineering, Ltd., Halford Works, Smethwick, £9,162, and Curral Lewis and Martin, Ltd., 11 Booth Street, Birmingham, 21, £8,556, respectively; mechanical services for modernisation of ward C4 at Dudley Road Hospital, provision of artificial limb and appliance centre at Selly Oak Hospital, accommodation for dispensary and pathological department at Yardley Green Hospital, and adaptations to the pathologist's office at Midland Centre for Neuro-surgery—F. Evans and Sons, Ltd., Talbot Street, Birmingham, £3,102; G. N. Haden and Sons, Ltd., 24 St. Pauls Square, Birmingham, 3, £11,406; K. L. Paton, Ltd., 1 King Alfreds Place, Birmingham, £2,280; and W. Dickens and Co. (Heating Engineers), Ltd., 187 Wolverhampton Street, Dudley, £981, respectively (recommended).

Bradford, Yorks.—Installation of hot and cold water services in James Street Fish Market and shops fronting to James Street for City Council—Ashwell and Nesbit, Ltd., 32 Headingley Lane, Leeds, 6, £955 (recommended).

Bromsgrove, Worcs.—Following for Birmingham Regional Hospital Board: Mechanical services for improvements to X-ray department at Bromsgrove General Hospital—James Ward (Worcester), Ltd., Broad Street, Worcester, £766; provision of automatic boiler controls in boiler house to female annexe at All Saints' Hospital—James Hodgkinson (Salford), Ltd., Ford Lane Works, Salford, 6, £1,288 (recommended).

Burton-upon-Trent, Staffs.—Provision of chain grate stokers at the General Hospital for Birmingham Regional Hospital Board—Edwin Danks and Co. (Oldbury), Ltd., Pedmore Road, Brierley Hill, £3,566 (recommended).

Burton-upon-Trent, Staffs.—Following for Birmingham Regional Hospital Board: Mechanical services for gynæcological department at the General Hospital—H. Clark and Son, 656a Allesley Old Road, Coventry, £11,703; provision of automatic chain grate stoker for Outwoods Hospital—Edwin Danks and Co. (Oldbury), Ltd., Pedmore Road, Brierley Hill, £1,383 (recommended).

Coventry.—Heating installation in ophthalmic unit at Coventry and Warwickshire Hospital, for Birmingham Regional Hospital Board—A. T. Ormerod, 23 George Elliot Road, Nuneaton, £1,599 (recommended).

Dagenham, Essex.—Provision and installation of gas water-heaters in 503 dwellings at Becontree estate, for L.C.C.—William Edgar and Son, Ltd., Isleworth, £22,879 (accepted); F. J. Baynes and Co., Ltd., £23,747; J. C. Spooner and Son, Ltd., £24,115; Stitson, White and Co., Ltd., £24,460; North Thames Gas Board, £24,848; W. G. Spittle, Ltd., £24,903; Ellis (Kensington), Ltd., £25,143.

Hereford.—Provision of domestic hot and cold water service mains, underground trenches, calorifier and pump installation at Burghill Hospital for the Birmingham Regional Hospital Board—W. Dickens and Co. (Heating Engineers), Ltd., 187 Wolverhampton Road, Dudley, £10,084 (recommended).

Kidderminster, Worcs.—Instrumentation of boiler plant at Blakebrook Hospital for Birmingham Regional Hospital Board—Cambridge Instrument Co., Ltd., 63 Hockley Hill, Birmingham, 18, £1,092 (recommended).

Leek, Staffs.—Mechanical services for phase II of provision of sanitary annexes at St. Edward's Hospital, Cheddleton, for Birmingham Regional Hospital Board—J. Jackson and Co., 60 Pershore Street, Birmingham, 5, £10,219 (recommended).

Manchester.—Following for Regional Hospital Board: Provision of air conditioning system in ward 17 at Monsall Hospital—Locker Industries, Ltd., Church Street, Warrington, £4,641; supply and installation of mechanically fired Economic boiler and incinerator at Withington Hospital—G. N. Haden and Sons, Ltd., 12 Harter Street, Manchester, 1, £18,683. (both recommended, subject to Ministry approval).

Shrewsbury, Salop.—Mechanical services in connection with alterations to casualty department, etc., at Royal Salop Infirmary and provision of ventilation in operating theatre at Copthorne Hospital, for Birmingham Regional Hospital Board—A. T. Marston and Co., Ltd., 26 Swan Hill, Shrewsbury, £1,586 and Richard Crittal and Co., Ltd., 42 Gooch Street, Birmingham, 5, £3,553, respectively (recommended).

Solihull, War.—Mechanical services for A block at Solihull Hospital for Birmingham Regional Hospital Board—H. Clark and Son, 656a Allesley Old Road, Coventry, £4,851 (recommended).

Wolverhampton, Staffs.—Mechanical services for modernisation of Dartmouth and McLaren wards at the Royal Hospital for Birmingham Regional Hospital Board—Ashwell and Nesbit, Ltd., 12 Whittall Street, Birmingham, 4, £12,333 (recommended).

Wolverhampton, Staffs.—Installation of central heating in St. Luke's C.E. Junior School for B.C.—D. Wiseman and Bros., Ltd., Wolverhampton, £2,665.

Worcester.—Provision of first heating calorifier, etc., at Powick Hospital, for Birmingham Regional Hospital Board—Brightside Heating and Engineering Co., Ltd., 17 Summer Row, Birmingham, 3, £3,170 (recommended).

HOUSING SCHEMES

Basildon, Essex.—Seventy-seven houses at Winifred Road, Pitsea, for U.D.C. S. A. Wadsworth, engineers and surveyor—L. H. H. Clowes, Ltd., Western Road, Billericay, Essex.

Bermondsey.—Construction at Wilson Grove site of 12 flats in one three-storey block and one two-storey block and 10 maisonnettes in a four-storey block, together with eight tenants' stores, six garages and a playground, for L.C.C.—Thomas McInerney and Sons, Ltd., Watford, Herts., £62,620 (accepted); Poolman (Builders), Ltd., £65,421; Wm. J. Jerram, Ltd., £67,816; A. R. Symes, Ltd., £69,852; Thomas and Edge, Ltd., £69,964; Henry Kent (Builders), Ltd., £70,863.

Bethnal Green.—Construction at Avebury estate of 32 flats in four four-storey blocks, for L.C.C.—Rowley Bros., Ltd., £94,850 (accepted); W. and C. French, Ltd., £94,950; Kirk and Kirk, Ltd., £97,975; The Demolition and Construction Co., Ltd., £100,485; Marshall Andrew and Co., Ltd., £102,445; H. Fairweather and Co., Ltd., £103,197; M. J. Gleeson (Contractors), Ltd., £106,825; A. E. Symes, Ltd., £107,427; Y. J. Lovell (London), Ltd., £108,126; Leslie and Co., Ltd., £109,256.

Brighton, Sussex.—Following for B.C.: 22 flatlets for aged persons at Carden Avenue—A.J. Construction Co., Ltd., 9 Marlborough Place, Brighton, £35,725 (recommended); Drury Construction son and Sons, Ltd., £38,897; Rowley Bros., Ltd., £37,400; J. G. Robinson and Sons, Ltd., £38,013; Field and Cox, Ltd., £38,527.

Twenty-two flatlets for aged persons at Whitehawk—A.J. Construction Co., Ltd., £37,798 (recommended); Drury Construction (Southern), Ltd., £38,514; J. G. Robinson and Sons, Ltd., £38,987; Rowley Bros., Ltd., £39,600; G. T. Crouch, Ltd., £39,850; Field and Cox, Ltd., £39,990.

Conversion of 65 Edburton Avenue into four flatlets for aged persons—Farmer (Brighton), 57 Lavender Street, Brighton, 1, £1,360 (recommended); A.J. Construction Co., Ltd., £1,760; G. J. King and Son, Ltd., £1,803; Elliott Bros., Ltd., £1,846; Edward Cox and Co., Ltd., £1,872; G. Watts and Co., Ltd., £1,882; McKellar and Westerman, Ltd., £1,902; H. A. Pocock, Ltd., £1,925; A. and F. Pilbeam, £1,937; William Willett, Ltd., £1,949; Mirfields, Ltd., £1,990; Coel, Ltd., £2,500; J. W. Ridge, Ltd., £2,559.

Bury St. Edmunds, Suffolk.—Four ambulance drivers' houses off Hospital Road for C.C.—Bury St. Edmunds Development Co., Ltd., Vinery Road, Bury St. Edmunds, £9,902 (recommended).

Camberwell.—Following for L.C.C.: Construction on the Wells Place site, Southampton estate, of 53 maisonnettes in three blocks, two of six storeys and one of four storeys, and 27 flats and maisonnettes in one six-storey block, together with 42 tenants' stores, 33 garages, parking spaces for 14 cars, two play areas and a drying area—Tersons, Ltd., 4 Dollis Park, London, N.3, £244,540 (accepted); Rowley Bros., Ltd., £249,763; Griggs and Son, Ltd., £254,930; J. Jarvis and Sons, Ltd., £256,846; Thomas and Edge, Ltd., £258,116; Bernard Sunley and Sons, Ltd., £259,475; Kirk and Kirk, Ltd., £259,723; W. J. Simms, Sons and Cooke, Ltd., £261,646; Gee, Walker and Slater, Ltd., £272,977.

Construction on the Rosemary Road site of 292 maisonnettes in eight four-storey blocks and one 11-storey block, and 34 old people's flats in a two-storey block and three-storey block, together with 159 tenants' stores, 46 garages, 38 parking spaces, a drying area and two play areas—Kirk and Kirk, Ltd., 287 Upper Richmond Road, London, S.W.15, £841,033 (accepted); M. J. Gleeson (Contractors), Ltd., £844,928;

Leslie and Co., Ltd., £848,940; Rush and Tompkins, Ltd., £849,620; John Laing and Son, Ltd., £854,274; Y. J. Lovell (London), Ltd., £861,618; A. T. Rowley (London), Ltd., £862,270; The Unit Construction Co., Ltd., £889,392; W. J. Simms, Sons and Cooke, Ltd., £891,611; Rowley Bros., Ltd., £892,084.

Cardiganshire. — Pair of semi-detached staff houses, with garages attached, etc., at Highmead Residential School for C.C.—Dan Davies and Son, Ffoshelig, Cribyn, Lampeter, Cards., £5,927 (accepted); H. Otto Glodschei, £4,514; John Jones and Sons, £7,339; Isaac Jones, Ltd., £7,655; E. J. Thomas, £7,668; Cambrian Construction Co., £8,382; Harris Woodworks (Hoxton), Ltd., £8,602.

Chorley, Lancs. — Eighteen aged persons' bungalows at Eccleston, near Chorley, together with roadworks, for R.D.C. W. Groves, engineer and surveyor—Marland Bros., Ltd., Eden Street, Leyland, Lancs., £21,700.

Cuckfield, Sussex.—Block of 29 flats at Boltro Road, Haywards Heath (contract 148) for R.D.C. A. Hutchings, engineer and surveyor—Hassocks Properties, Ltd., London Road, Hassocks, £80,886. Work about to commence.

Dungannon, Tyrone. — Six semi-detached houses, three garages and ancillary works at Drumreany, Castlecaulfield, for R.D.C.—McGrath and Co. (Coalisland), Ltd., Dungannon, £11,509 (recommended); H. Nugent and Sons, £10,526; Corrigan and Son, £12,555. Work is expected to start in March.

Erith, Kent.—One hundred and sixteen dwellings in three-storey block of flats and four-storey maisonnettes at Appian Way housing site for B.C.: Wates, Ltd., 1258-1260 London Road, Norbury, S.W.16, £238,306.

Greenwich. — Construction on the Shooter's Hill Road site of 172 flats in four 11-storey blocks, 22 old people's dwellings in a two-storey block, 42 terrace houses and 12 flats in six two-storey blocks, 24 terrace houses in three two-storey blocks, and 76 tenants' stores, 44 garages, 48 parking spaces, a workshop and two play spaces, for L.C.C. (Contract A); and construction on the Czar Street site of 129 flats in three 11-storey blocks, 16 old people's flats in two two-storey blocks, and a combined doctor's surgery and child-care office, 64 tenants' stores, 24 garages, 49 parking spaces and two play spaces (Contract B). The rates and prices for contract B will be based on those for contract A—Rush and Tompkins, Ltd., Station Road, Sidcup, Kent, £705,879 (accepted); Tersons, Ltd., £710,033; Bernard Sunley and Sons, Ltd., £735,334; M. J. Gleeson (Contractors), Ltd., £736,795; Wates, Ltd., £748,246; Leslie and Co., Ltd., £749,494; The Unit Construction Co., Ltd., £751,886; Rowley Bros., Ltd., £754,270; W. J. Simms, Sons and Cooke, Ltd., £778,416. On the basis of the rates and prices in contract A the estimated total cost of the development on the Czar Street site is £428,380, including £39,280 for incidental expenses.

Hackney.—Construction on the Rivaz Place site of four dwellings for old people in a single-storey block and 26 flats in a three-storey block, together with 19 tenants' stores, four garages and five parking spaces for L.C.C.—Wm. J. Jerram, Ltd., Sandford Works, London, E.6, £74,703 (accepted); A. T. Rowley (London), Ltd., £75,872; Rowley Bros., Ltd., £77,431; Gray, Conoley and Co., Ltd., £77,758; Thomas and Edge, Ltd., £77,893; Ward and Paterson, Ltd., £77,987; Poolman (Builders), Ltd., £78,338; H. T. Oliver and Sons, Ltd., £79,797; H. Webb (Builders), Ltd., £79,846; Walter Llewellyn and Sons, Ltd., £80,528.

Hambledon, Surrey.—Two pairs of bungalows at Parsonage Road, Cranleigh, for R.D.C.—B. G. Merrison, Brundall, Churt, near Farnham, £6,257 (accepted); Wooton Construction Co., Ltd., £6,722; H. J. Titcomb and Sons, Ltd., £6,882; Deeks and Steere, Ltd., £6,280; J. M. Bicknell and Son, £6,794. Work commencing April.

Hammersmith. — Construction at Caroline estate, Barons Court, of 14 maisonnettes in a four-storey block and 15 flats in a three-storey block, etc., for L.C.C.—Halse and Sons, Ltd., Woolwich, £73,512 (accepted); J. M. Hill and Sons, Ltd., £73,645; Prestige and Co., Ltd., £77,052; Percy Bilton, Ltd., £77,984; M. J. Gleeson (Contractors), Ltd., £78,526; Griggs and Son, Ltd., £83,316; Whyatt (Builders), Ltd., £83,873; A. T. Rowley (London), Ltd., £85,064; Wilson Lovatt and Sons, Ltd., £85,684; Patman and Fotheringham, Ltd., £86,811.

Islington. — Construction at Bemerton estate of piled foundations for block 5, and the erection of 136 flats in two 10-storey blocks, blocks 5 and 8, for L.C.C.—Piling—The Pressure Piling Co. (Parent), Ltd., Camberwell, £15,646 (accepted); Soil Mechanics, Ltd., £16,550; The Demolition and Construction Co., Ltd., £21,120; Frankipile, Ltd., £21,225; Piling and Construction Co., Ltd., £21,254; Terrasearch, Ltd., £22,570.

Superstructure—Tersons, Ltd., Finchley, £387,628 (accepted); Wilson Lovatt and Sons, Ltd., £394,694; Percy Bilton, Ltd., £399,674; Y J. Lovell (London), Ltd., £401,182; Thomas and Edge, Ltd., £403,412; A. T. Rowley (London), Ltd., £410,789; Rowley Bros., Ltd., £421,005; J. M. Hill and Sons, Ltd., £422,965; M. Howard (Mitcham), Ltd., £434,489; J. Gerrard and Sons, Ltd., £448,087; Carlton Contractors, Ltd, £454,415.

Lambeth.—Following for L.C.C.: Construction on the Fenwick Place site of 265 dwellings in nine four-storey blocks of maisonnettes and flats, two two-storey blocks of flats and a terrace of two-storey houses, etc.,—Wilson Lovatt and Sons, Ltd., Westminster, £638,224 (accepted); Kirk and Kirk, Ltd., £649,347; Wates, Ltd., £660,957; W. J. Simms, Sons and Cooke, Ltd., £661,433; Tersons, Ltd., £665,703; Y. J. Lovell (London), Ltd., £665,830; The Demolition and Construction Co., Ltd., £671,784; Rowley Bros., Ltd., £679,817; A. T. Rowley (London), Ltd., £684,684; Leslie and Co., Ltd. £696,234.

Nine terrace houses and 24 flats in a six-storey block, together with a play space, seven garages and parking space for five cars at Tulse Hill estate extension—Direct Labour, £97,700.

Liverpool. — One hundred and eighty-three dwellings and 71 garages on the new Longmoor Lane, Fazakerley, for City Council—Peak Construction Co., Ltd., 95 Broad Lane, Liverpool, 11, £349,916 (recommended).

Maidstone, Kent. — Forty-seven flats in an eight-storey block with a laundry at Hayle Road site for B.C.: Wates, Ltd., 1258-1260 London Road, Norbury, London, S.W.16, £96,577.

Mere and Tisbury, Wilts.—Sixty-one dwellings at North Street, council offices and avenue housing sites for R.D.C.—A. Hammond and Sons, Ltd., Sturminster Newton, Dorset, £98,452 (subject to Ministry approval).

Midhurst, Sussex.—Twenty-four flats at New Road and a block of 24 old people's flatlets and warden's quarters at Egmont Road, Eastbourne, for R.D.C. K. C. Parker, engineer and surveyor—Drury Construction (Southern), Ltd., Worthing, £31,500 (negotiated tender). Work about to commence.

Nuneaton, War.—Conversion of The Gables, 31 Lutterworth Road, into three flats, for B.C.—Smith and Ellis, 11 Chandos Street, Nuneaton, £3,610 (recommended).

Paddington.—Following for L.C.C.: Construction on the Carlton Vale site of 105 maisonnettes and 14 flats in two four-storey blocks and two six-storey blocks, etc.—Tersons, Ltd., Finchley, £355,309 (accepted); Rowley Bros., Ltd., £359,524; Kirk and Kirk, Ltd., £366,135; The Unit Construction Co., Ltd., £376,238; A. T. Rowley (London), Ltd., £399,253; Y. J. Lovell (London), Ltd., £399,706; M. J. Gleeson (Contractors), Ltd., £399,864; Thomas and Edge, Ltd., £403,921; Leslie and Co., Ltd., £414,861; Rush and Tompkins, Ltd., £415,142.

Construction on the Maida Vale site of 321 flats in three 18-storey blocks, together with 20 parking spaces, two play spaces and a fitted playground — Tersons, Ltd., Finchley, £919,808 (accepted); Wates, Ltd., £955,905; Rush and Tompkins, Ltd., £959,407; M. J. Gleeson (Contractors), Ltd., £965,777; W. and C. French, Ltd., £974,738; The Unit Construction Co., Ltd., £978,344; Wilson Lovatt and Sons, £979,958; Rowley Bros., Ltd. £988,817; Bernard Sunley and Sons, Ltd., £1,001,203; J. M. Hill and Sons, Ltd., £1,016,288.

Pewsey, Wilts.—Six three-bedroom houses and four two-bedroom bungalows on the North Tidworth housing estate for R.D.C. Sutton, Griffin and Sweetman, architects, 87 Northbrook Street, Newbury—Sturgess Bros., Appleshaw, Andover, £17,687 (accepted); W. Marshall (Andover), Ltd., £18,043; Baldwin Bros. (Builders), Ltd., £19,172. Work commencing this month.

Poplar.—Following for L.C.C.—Construction on the Arcadia Street site of 84 maisonnettes and 10 flats in one six-storey block, a shop with a flat above, together with 59 garages, 28 tenants' stores and two play-spaces (contract a) and foundation and preliminary works and the contruction on the Troon Street site (Stepney) of 53 maisonnettes and flats in one six-storey block, together with 12 tenants' stores, one play-space and 26 parking spaces (contract b). The rates and prices for the work in contract (b) will be based on those in contract (a)—Frank Bilton (London), Ltd., Beckenham, £242,326 (accepted); Harry Neal, Ltd., £246,209; W. J. Simms, Sons and Cooke, Ltd., £247,008; The Demolition and Construction Co., Ltd., £247,123; Rowley Bros., Ltd., £247,163; Tersons, Ltd., £248,035; J. Jarvis and Sons, Ltd., £257,619; Percy Bilton, Ltd., £259,691. On the basis of the rates and prices in contract (a) the estimated total cost of the development in the Troon Street area, based on the lowest tender and including incidental and other expenses, is £171,100.

Construction in the Arrow Road area of 42 flats in one 11-storey block, together with tenants' stores, a car park, five shops and a playground—Bernard Sunley and Sons, Ltd., Westminster, £125,465 (accepted); Rowley Bros., Ltd., £130,482; Wilson Lovatt and Sons, Ltd., £132,133; W. and C. French, Ltd., £132,434; Prestige and Co., Ltd., £132,540; J. M. Hill and Sons, Ltd., £135,329; Y. J. Lovell (London), Ltd., £136,014; A. T. Rowley (London), Ltd., £136,072; Thomas and Edge, Ltd., £136,847; M. J. Gleeson (Contractors), Ltd., £138,192.

Construction on Perry's Close site of 51 dwellings in two three-storey blocks of flats and a four-storey block of maisonnettes, together with 16 tenants' stores, five garages, a drying area, parking space for 11 cars, a temporary car park and a newsagent's kiosk — Stewart and Partners, Ltd., St. Marylebone £122,993; Griggs and Son,, Ltd., £125,150; W. J. Simms, Sons and Cooke, Ltd., £131,193; Rush and Tompkins, Ltd., £131,300; Rowley Bros., Ltd., £131,392; Prestige and Co., Ltd., £132,382; J. Jarvis and Sons, Ltd., £133,784; Gray, Conoley and Co., Ltd., £135,113; H. Webb (Builders), Ltd., £137,584.

Rochford, Essex.—Two pairs of houses at Oakleigh Avenue, Hullbridge, and one pair of bungalows at High Elms Road, Hullbridge, for R.D.C.—Hodgson (Wickford), Ltd., Torquay Drive, Leigh-on-Sea, Essex, £11,040. Work has commenced.

Shildon, Dur.—Twenty-one houses on the Jubilee Fields estate for U.D.C.—Direct Labour.

Southwark.—Construction of 60 maisonnettes in two four-storey blocks at Brandon estate for L.C.C. — Direct Labour. Total estimated cost £170,500.

Southwell, Notts.—Sixteen pairs of dwellings and a communal block at Crowpark Avenue, Sutton-on-Trent, for R.D.C.—C. Millward and Co., Ltd., Bannecman Road, Kirkby-in-Ashfield, £50,239 (accepted); Adam Eastwood and Sons, Ltd., £51,743.

Stepney. — Following for L.C.C.—Construction at Locksley estate of 18 flats in a three-storey block, 28 flats and maisonnettes in a three-storey block and five terrace houses, together with 20 tenants' stores and 18 garages for L.C.C.—W. J. Marston and Son, Ltd., Fulham, £114,430 (accepted); Stewart and Partners, Ltd., £120,968; Thomas McInerney and Sons, Ltd., £121,174; W. J. Simms, Sons and Cooke, Ltd., £125,106; Wm. J. Jerram, Ltd., £125,286; Rush and Tompkins, Ltd., £126,203; J. Jarvis and Sons, Ltd., £127,227.

Construction in Bigland Street area of 38 maisonnettes in three four-storey blocks—H. Webb (Builders), Ltd. Estimated total cost £125,800.

Sutton-in-Ashfield, Notts. — Following for U.D.C.: (a) Sixty bungalows on the Carsic Lane estate, scheme 20, and (b) central redevelopment area, section 2—two blocks, each of three-storey construction, and each containing 18 flats (36 flats in all); at the junction of Wood's Hill/Brook Street. Warner and Dean, architects and surveyors, Mansfield Road, Sutton-in-Ashfield — (a) W. Wright and Sons, Redcliffe Street, Sutton - in - Ashfield, £77,661, and (b) H. Baggaley, Ltd., Baums Lane, Mansfield, £68,776. Work to commence March.

Wandsworth.—Construction on the North Drive site and extension of 130 flats in five six-storey blocks, 53 houses in eight terraces and 12 old people's flats in a three-storey block, together with 42 tenants' stores, 10 garages, 40 parking spaces, and three play spaces for L.C.C.—Tersons, Ltd., 4 Dollis Park, London, N.3, £482,784 (accepted); Thomas and Edge, Ltd., £503,802; J. M. Hill and Sons, Ltd., £506,249; Kirk and Kirk, Ltd., £516,003; M. J. Gleeson (Contractors), Ltd., £516,948; Rush and Tomkins, Ltd., £521,823; Wates Ltd., £525,700; J. Jarvis and Sons, Ltd., £528,500; W. J. Simms, Sons, and Cooke, Ltd., £534,236; The Demolition and Construction Co., Ltd., £598,980.

Willesden, Middx.—Twenty-four flats and 14 garages comprising blocks S and V of the South Kilburn redevelopment scheme and the conversion of 15-19 Park Avenue into 15 aged persons' dwellings for B.C.—E. J. Lacey and Co., Ltd., Steele Road, London, N.W.10, £67,781, and Bristow and Darlington, 80 Chamberlayne Road, London, N.W.10, £15,133, respectively (recommended, subject to Ministry approval).

Wisbech, I. of E.—Fifty houses and 37 garages in the Tinkers Drove area for B.C.—Law Bros. (Builders), Ltd., Littleport, £81,132 (accepted); H. Firman, £84,091; F. H. Simmonds, £92,266.

Wolverhampton, Staffs.—Following for B.C.: Eight flats at Leacroft Avenue and Kempthorne Avenue—R. Hallett and Sons, Ltd., Manby Street, Wolverhampton, £10,250; 17 flatlets for old people at the Broadway, Bushbury—Direct Labour, £20,818 (subject to Ministry approval).

MATERIALS AND SUPPLIES

Willesden, Middx.—Supply of granite chippings for B.C.—Amalgamated Roadstone Corporation, Ltd., 15 Stanhope Gate, London, W.1, £1 13s. 9d. per ton (recommended).

MISCELLANEOUS

Worcester.—Provision and installation of fire pump at Powick Hospital for the Birmingham Regional Hospital Board—Jones and Attwood, Ltd., Stourbridge, £1,510 (recommended).

PLANT AND MECHANICAL TRANSPORT

Bexley, Kent.—Supply of a Massey-Ferguson 35 de luxe diesel industrial tractor for B.C.: Penwarden and Frost, Ltd., Farningham, £734.

Exeter.—Supply of the following for City Council: One 30cwt. Commer van—Standfield and White, Ltd., St. Sidwells, Exeter, £855 less £110 allowance for old vehicle; three TY type 26 cu. yd. diesel engined fore and aft tippers, fitted with hygienic shutters and power press, and one TW type 12 cu. yd. diesel engined fore and aft tipper, fitted with hygienic shutters and power press—Shelvoke and Drewry, Ltd., Letchworth, Herts., £11,745 and £3,327, respectively (recommended).

Southampton.—Supply of a mobile crane for B.C.—W. R. Selwood, Ltd., Bournemouth Road, Chandler's Ford, Hants, £5,195 (recommended).

PLAYING FIELDS, PARKS, ETC.

Basildon, Essex.—Construction of Markham's Chase recreation ground, part 1, for U.D.C.—S. R. Jones and Co., Ltd., Southminster, Essex, £1,552.

Bury, Lancs.—Levelling, draining cultivation and seeding of nine acres of playing fields, together with ancillary works, at Clarence Park for B.C.—Moulding Bros., Prestwich, Lancs.

Ealing, Middx.—Tenders received for following for B.C.: Reinstatement of playing field at Brentfield—J. S. Bishop and Co., £7,604; En-Tout-Cas Co., Ltd., £8,306; F. M. Reffell, Ltd., £11,975; Sherwood Bros. (Agri Service), Ltd., £5,292.

Development of open space, site 1, at Ruislip Road—J. S. Bishop, £978; En-Tout-Cas Co., Ltd., £1,553; Grassphalte, Ltd., £1,018; H. Pearl Bovinger, £815; Sherwood Bros., £1,147.

Reinstatement of former allotment land at Ealing Grammar School for Boys—R. B. Brazier, Ltd., £1,721; James Cooper (Construction), Ltd., £2,298; E. Doe and Sons (Contracts), Ltd., £1,274; Flynn Excavations, Ltd., £2,422; Grassphalte, Ltd., £2,039; Norman Hill Plant Hire, £2,040; Kingsway Nurseries, Ltd., £2,122; Maxwell M. Hart (London), Ltd., £2,085; J. Murphy and Sons, Ltd., £2,868; Hugh Pearl (Contracts) Ltd., £1,680; Henry Shannon (Landscapes), Ltd., £1,543; Sherwood Bros. (Agri Service) Ltd., £1,832.

Middleton, Lancs.—Construction of Worcester Road children's playpark for B.C.—Greenfields Nurseries, Ltd., Fulshaw Cross, Wilmslow.

Nuneaton, War.—Construction of three hard tennis courts at Pingle Fields, Riversley Park, for B.C.—Direct Labour (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed:

London Midland Region:

Staff Association Club building at Birkenhead—Evelyn Williams and Co., Ltd., Birkenhead.

Construction of bored piles for Bridge 21 over the proposed Queensferry By-pass on the Chester/Holyhead line—Braithwaite Foundations and Construction, Ltd., Regent Street, London, S.W.1.

Lowering through Liverpool Line tunnels in connection with Liverpool/Crewe electrification — Leonard Fairclough, Ltd., Adlington, Lancs.

Joint commercial service and telephone inquiry bureau at Birmingham Suffolk Street offices—L. Walton (Builders), Ltd., Old Walsall Road, Great Barr, Birmingham.

Improvements to Staff Association buildings at Skipton—T. T. Chapman, Ltd., Skipton, Yorks.

Construction of offices, sub-station building, battery charging station and workshop building at Herdman Channel, Belfast—William Mitchell, Ltd., Strandtown, Belfast.

Scottish Region:

Building work at Inverness—J. Campbell and Sons, Inverness.

Electric power and lighting for diesel maintenance facilities, Eastfield motive power depot, Glasgow—Fraser and Borthwick, Ltd., Glasgow.

Four 50,000-gallon oil storage tanks for diesel maintenance facilities, Eastfield motive power depot, Glasgow—Mechans, Ltd., Glasgow.

Piling and foundations for office block, Sighthill new goods depot, Glasgow—West's Piling and Construction Co., Ltd., Glasgow.

Site works at overbridges 16, 44 and 155, Kinbuck, Gleneagles and Burrelton—Jas. White (Contractors), Ltd., Edinburgh.

Earthworks, drainage and fencing for rail connection to B.M.C. factory, Bathgate—Jas. White (Contractors), Ltd., Edinburgh.

Site works at overbridges 52, 54 and 81, Polmont and Greenhill—Jas. White (Contractors), Ltd., Edinburgh.

Glasgow Suburban Electrification:

Reconstruction of overbridge 4, Maxwell Road, between Eglinton Street and Pollokshields East stations—Webster, Bannerman and Co., Ltd., Glasgow.

Footbridges at Williamwood, Whitecraigs, Patterton and Neilston High stations—P. and W. MacLellan, Ltd., Glasgow.

ROADS, BRIDGES AND SITE WORKS

Abingdon, Berks.—Making-up of North Avenue and West Avenue, for B.C. K. M. Rathborn, borough engineer and surveyor—Amey's Asphalt Co., Ltd., Sutton Courtenay, near Abingdon, £10,094 (subject to Ministry approval).

Amersham, Bucks.—Amersham - Beaconsfield Road, B.473 (White's Hill to Birchen Springs), comprising earthworks, widening and realignment with lean concrete granular base, kerbing, drainage, tarmacadam surfacing and ancillary works, for C.C. E. H. Frankland, county surveyor—Frain Bros. (London), Ltd., London, N.W.9, £40,130. Work commencing this month.

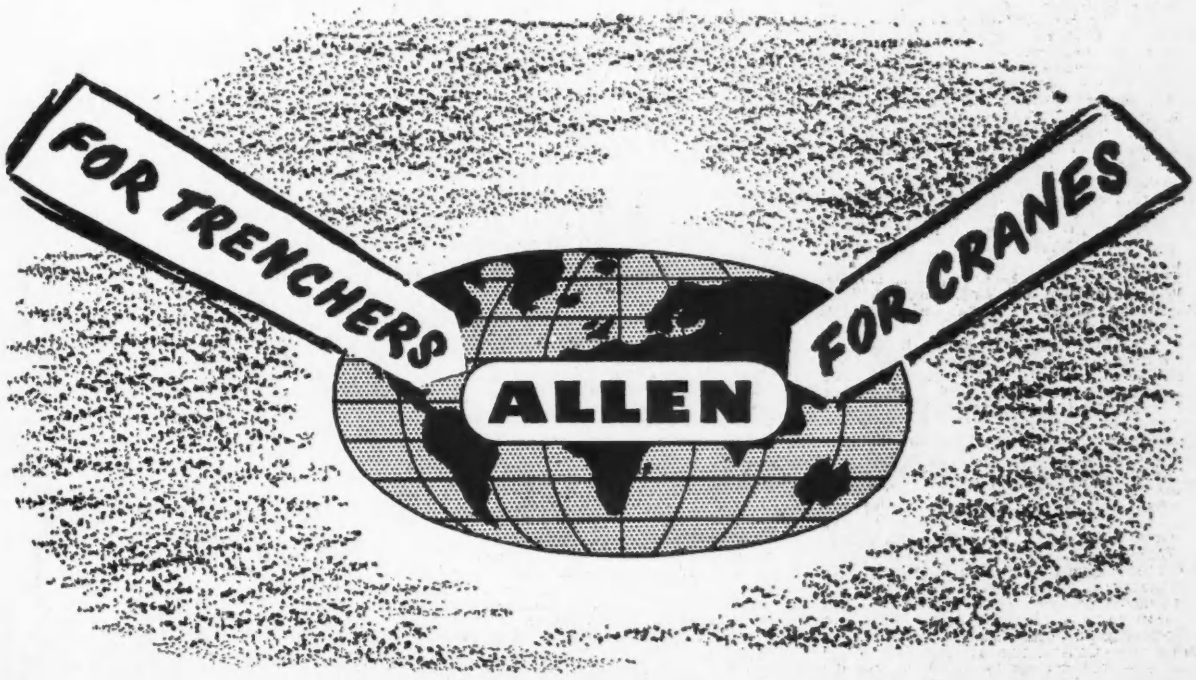
Basildon, Essex.—Construction of a dual carriageway linking two industrial sites, for Development Corporation — Scott Hale (Contractors), Ltd., 47 Globe Road, Romford, £319,057.

Coleraine, Londonderry.—Portstewart Road reconstruction scheme for B.C.—J. and H. E. Doherty, Ltd., Coleraine, £46,395 (recommended).

Crawley, Sussex.—Construction of the Three Bridges radial road, for Development Corporation—Highways Construction, Ltd., Asphalte House, Palace Street, S.W.1, £97,915. Work about to commence.

Ealing, Middx.—Repairs to playground at Coston Junior Girls' School for B.C.—S. T. Jagger and Sons, 60 Empire Road, Perivale, Greenford, £1,199 (recommended).

Exeter.—Improvement of the High Street for City Council—(a) Val de Travers Asphalte Paving Co., Ltd., 229 High Street, Exeter,



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£9,389. (b) Devon Contractors, Ltd., Venny Bridge, Whipton, Exeter, £19,587 (recommended).

Gravesend, Kent.—Renovation of sections of the access road to the Port of London Isolation Hospital, Denton, for Dartford Hospital Management Committee—Hodson, Ltd., 17 Wrotham Road Gravesend.

Hambledon, Surrey.—Construction of a short cul-de-sac road leading off Parsonage Road for R.D.C.—G. W. King (Wokingham), Ltd., 27 Milton Road, Wokingham, Berks., £1,218 (accepted); R. H. McCulloch, Ltd., £1,383; Kaymat, Ltd., £1,321; Farnborough Construction Co., Ltd., £1,297; Beasley Bros., £1,598; T. Vickers, Ltd., £1,409; R. Saunders and Co. (Woking), Ltd., £1,464; Franks Harris Bros., Ltd., £1,479; Watts Bros. Co., Ltd., £1,318. Work commencing this month.

Horsham, Sussex.—Reshaping and tarmacadam surfacing of 2,000 sq. yd. hardcore carriageway and the construction of footways and verges at Hawkesbourne Road, for U.D.C. J. P. Ridd, surveyor—F. J. Dunkerton, Ltd., Nowhurst Quarries, Broadbridge Heath, Horsham, £2,715. Work just commenced.

Lytham St. Annes, Lancs.—Private street works for B.C.: Clarendon Road North (part of) from St. Annes Road East to back of St. Annes Road East and Caryl Road (part of)—P. Levins, 6a West Crescent, St. Annes.

Midhurst, Sussex.—Road and sewer works at New Road for R.D.C., comprising the construction of 283 lin. yd. of 6in. and 9in. diameter soil and surface water sewers, 590 sq. yd. of tarmacadam lay-by and footway, together with ancillary works. K. C. Parker, engineer and surveyor—G. A. Neal and Sons, Stockbridge Road, Chichester, £4,601 (accepted); Bryan Wattridge (Public Works), Ltd., £4,663; A. L. J. Davis (Public Works), Ltd., £4,851; J. J. Bleach and Sons, Ltd., £4,903; Bridgwater Bros., £5,343; Pipe Line and Engineering Co., Ltd., £5,481. Work just commenced.

Shipley, Yorks.—Westfield Lane improvement for U.D.C., including the widening of carriageway, provision of footways and verges and incidental works (length 570yd.). D. Urwin, engineer and surveyor—A. E. Morris (Yorks), Ltd., Russell Street Chambers, Bingley. Work just commenced.

Southampton.—Construction of a car park on School of Art site for B.C.—Jno. Croad, Ltd., Portland Street, Portsmouth, £2,645 (recommended extension of contract).

Sunbury, Middx.—Construction of a roundabout at the junction of Walton Bridge Road with Russell, Gaston Bridge and Fordbridge Road, for C.C.—William Old, Ltd., 433 Pinner Road, Harrow, £20,577 (recommended, subject to M.T. approval).

Tynemouth, Northumb.—Advance site works on housing land on the Southlands estate for B.C. D. M. O'herlihy, borough engineer—J. W. and S. Dorin, Grosvenor Drive, Whitley Bay, £20,299.

Uxbridge, Middx.—Making-up of Warren Road (part 3), contract 467, for B.C. H. E. G. Stripp, borough surveyor—A. A. Williams (Contractors), Ltd., 405 Nelson Road, Hounslow, Middx., £12,748 (subject to Ministry approval).

Walthamstow, Essex.—(a) Resurfacing and (b) heating and planing of Chingford Road, for B.C.—(a) H. V. Smith and Co., Ltd., Walkden House, 3/10 Melton Street, London, N.W.1, £3,577, and (b) East Anglian Roadstone and Transport Co., Ltd., 66 Bracondale, Norwich, £1,256 (recommended).

Yeovil, Som.—Completion of roads, lighting and footpaths at site 2, scheme 1, Sunningdale estate, for B.C.—Direct Labour, £12,885 (recommended).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Aylesbury, Bucks.—Buckingham Road main drainage (contract 2) for B.C. G. B. Hannay, borough engineer and surveyor—Frain Bros. (London), Ltd., London, N.W.9, £44,000. Work commenced.

Chelmsford, Essex.—Extensions at Brookend sewage disposal works for B.C.—Howard Farrow, Ltd., 1 Russell Parade, Golders Green Road, London, N.W.11, £458,958 (subject to Ministry approval).

Coleraine, Londonderry.—Millburn drainage scheme for B.C.—John Rainey (Construction), Ltd., Portrush, £4,963 (recommended).

East Kesteven, Lincs.—Construction of extensions to the sewage disposal works at Anwick, near Sleaford, contract 1, for R.D.C. The extensions consist of new settlement and humus tanks, filter beds, sludge drying beds, and a pumping station with storage tanks, together with the laying of some 280yd. of 9in. diameter sewer from a nearby factory. John H. Haiste and Partners, consulting engineers, 44/46 Bridge Street, Peterborough—Winton Construction Co., Ltd., Monks Avenue, Eastgate, Louth, Lincs., £24,038 (recommended, subject to Ministry approval).

Forehoe and Henstead, Norfolk.—Alterations to a small sewage disposal works, construction of a new filter bed and laying approximately 520yd. of 6in. outfall pipe at Easton housing site for R.D.C. W. A. Jones, engineer and surveyor—F. P. Cann (Builders), Ltd., Philadelphia Lane, Norwich, £1,610 (accepted); A. J. Holloway, Ltd., £2,181; E. J. Edwards (Norwich), Ltd., £1,795; Harry Pointer (Norwich), Ltd., £2,460; A. R. King, £2,695. Work commencing March.

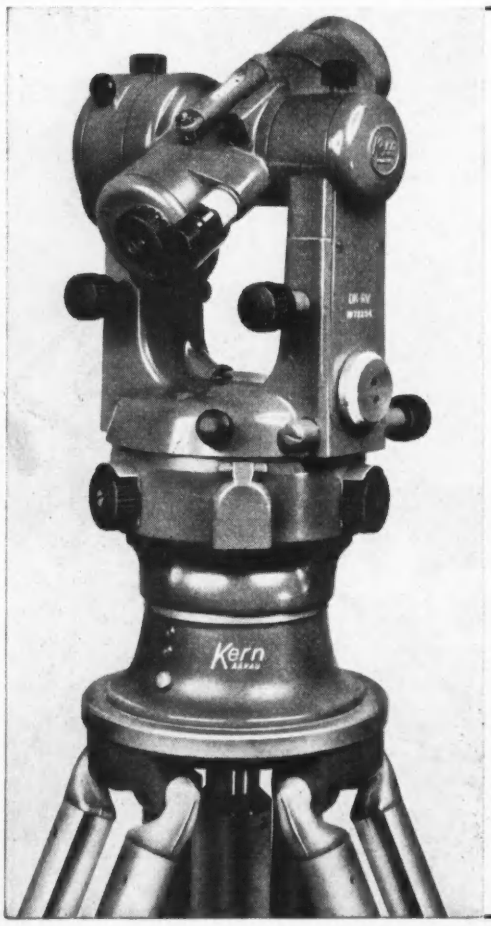
Harpenden, Herts.—Construction of foul sewer in Wheathampstead Road, Green Lane Close and Meadway, for U.D.C.—Stevenson-Spence, Ltd., 37 Leyton Road, Harpenden, £1,902 (accepted); Connor and Connor, £2,092; C. H. Linton, £2,414. Work to commence Feb.

Ilford, Essex.—Following for B.C.: Provision of additional manholes during this year—Ruddock and Meighan, Ltd., Burford House, Harrow View, Wealdstone, Middx., £1,286; reconstruction of Cranbrook Road stage 3, in connection with the main drainage scheme—Percy Bilton, Ltd., 113 Park Street, London, W.1, £102,050 (recommended).

Inverness-shire.—Construction of a 7,800-gallon septic tank and the supply and laying of about 600 lin. yd. of 6in. and 4in. f.c. piping at Dores for C.C. H. Forsyth, county water engineer—George Duncan and Co., Ltd., 5 Dochfour Drive, Inverness.

Market Harborough, Leics.—Laying of sewers at Great Easton, Bringhurst and Drayton, and the construction of a sewage disposal works at Great Easton, for R.D.C. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester—Judkins (Coated Macadam), Ltd., Tuttle Hill, Nuneaton, £35,788. Work commencing Mar. 1.

Middlesex.—Following for C.C.: Construction of the pumping station superstructure, office, garage and other buildings at Rammey Marsh sludge disposal works, contract EMR3—J. Laneson and Co., Ltd., 28



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Park Road North, London, W.3, £30,262; supply of sewage pumps and motors required for the pumping station at Rammey Marsh works, contract EMR4—Lee Howl and Co., Ltd., Tipton, Staffs., £3,999 (recommended).

Newtown and Llanidloes, Monts.—Construction of the Llangurig sewerage scheme for R.D.C.—Evans, Ingham and Ridge, Llandrindod Wells, Radnors, £27,682.

Pontypool, Mon. — Construction of the Croesyceiliog sewerage scheme, stage 3, for R.D.C. Thomas and Morgan and Partners, consulting engineers, 23 Gelliwasted Road, Pontypridd—J. F. Dymond, 30 High Street, Newport, £2,674. Work to commence this month.

Rothwell, Yorks.—Construction of Mickletown-Lemonroyd sewerage scheme for U.D.C., work comprising main pumping station, storm overflow chamber, 27in. diameter outfall sewers, and siteworks at Mickletown; 3,400 lin. yd. of 9in. diameter pumping main, reinforced concrete humus tanks, sludge drying beds, sludge pumping station, pipelines, manholes and access roads at Lemonroyd sewage works. A. D. W. Dibble, engineer and surveyor—McLauchlan (Knottingley), Ltd., Hill Top, Knottingley, £34,350.

Runcorn, Ches.—Construction of the Kingsley sewerage and sewage disposal scheme for R.D.C., comprising the construction of about 7,000 lin. yd. of glazed stoneware pipe sewers, 9in. and 6in. in diameter, with manholes and storm overflow chambers; also sewage disposal works, comprising screening and detritus tanks, sedimentation tanks, storm water tanks, dosing chambers, bacteria bed, humus tanks, pump houses and sludge lagoons, with incidental works. A. H. S. Waters and Partners, consulting engineers, 25 Temple Row, Birmingham, 2—Samuel Hutton and Co., Ltd., Barton Place, Northwich, £72,019.

Tutbury, Staffs.—Drainage works at St. Mary's Drive and Hall Green Avenue, Stretton, for R.D.C.—Direct Labour.

STREET LIGHTING

Doncaster, Yorks.—Replacement of gas lamps with electric lights in parish of Warmsworth, for R.D.C.—Yorkshire Electricity Board, £1,107.

Ealing, Middx.—Tenders received for the supply of street lighting equipment at Uxbridge Road and Boston Road (part)—(a) Columns—Abacus Engineering, Ltd., £4,062; Harland and Wolff, Ltd., £4,550; Bagshaws Contractors, Ltd., £5,068; Erecon, Ltd., £5,156; The General Electric Co., Ltd., £5,161; Atlas Lighting Co., £5,185; A.E.I. Lamp and Lighting Co., Ltd., £5,227; Machinery Installations, Ltd., £5,241; S. A. Inston and Co., £6,761. (b) Lanterns and equipment—A.E.I. Lamp and Lighting Co., Ltd., £3,296; Revo Electric Co., Ltd., £3,631; The General Electric Co., Ltd., £3,715; Atlas Lighting, Ltd., £4,060.

Oxfordshire.—Street lighting, supply and installation complete of 200-W sodium lights on 14 steel columns at the roundabout at the junction of A.423/A.43, for C.C.—Abacus Municipal, Ltd., Sutton-in-Ashfield, Notts.

GOVERNMENT CONTRACTS

Admiralty. — Particulars of contracts over £4,000 in value placed by Navy works department:

Dunbartonshire: Effluent disposal plant and equipment — Prodorite, Ltd., Wednesbury, Staffs.

Malta: Erection of W.T. mast — British Insulated Callenders Construction Co., Ltd.

Air Ministry.—Contracts to the value of £4,000 or over for the week ended Jan. 20:

Building work: Truro, Cornwall—Dudley Coles, Ltd., 6-13 Bath Street, Plymouth; Uxbridge, Middx. — W. H. Streeter, Ltd., Tudor Road Works, Hampton, Middx.

Artificers' work: Falmouth, Corn.—Dudley Coles, Ltd., 6-13 Bath Street, Plymouth.

Painting work: St. Mawgan, etc., Corn.—George Jones and Son (Contractors), Ltd., 27b Kensington Church Street, London, W.8.

Replacement and renewal of existing patent glazing and cat walks: Cardington, Beds.—Walter, Few and Sons, Ltd., 17 Highbury Park, London, N.5.

Preparation and maintenance of land: Bovindgon (Herts.), etc., Uxbridge (Middx.), etc., and Manston (Kent), etc. — Turfsoil, Ltd., 58 Westcombe Hill, Greenwich, London, S.E.10; Wethersfield (Essex), etc., and Farnborough (Hants), etc. — Surface Maintenance Services, Ltd., 124 Old Christchurch Road, Bournemouth, Hants.

Ministry of Works.—Contracts placed for week ended Jan. 14:

Cheshire: Telephone Exchange, Poynton—extension—Z. and W. Wade (Whaley Bridge), Ltd., Whaley Bridge, Stockport.

Cornwall: Coastguard Station, Pendennis Castle, Falmouth—conversion of dwelling—Gray, Conoley and Co., Ltd., Penryn.

Devon: Telephone Exchange, Herbert Road, Salcombe — erection — Humphreys, Ltd., Market Road, Plympton.

Gloucestershire: office building, 17 Whiteladies Road, Bristol — occupational services—Caines Bros. (Bristol), Ltd., Bedford Street, Bristol 5; Postmen's Office, Kent Street, Bedminster, Bristol—erection C. H. Pearce and Sons, Ltd., Westbury Hill, Westbury-on-Trym, Bristol.

Hertfordshire: Post Office, Letchworth—extensions and alterations—John Willmott and Sons, Ltd., 80 Walsworth Road, Hitchin.

Kent: Telephone House, Canterbury—painting—Spraycraft Co., Ltd., 101-2 Palace Road, Bromley.

London: Royal Naval College, Greenwich, S.E.10—modernisation of lavatory accommodation — Walker, Clinging and Co., 16 Perry Hill, Catford, S.E.6; The Royal Hospital, Chelsea, S.W.3—conversion of ward 18 into two flats—W. J. Southgate, 65 Kenway Road, Earls Court, S.W.5; Telephone Exchange, Harlesden, N.W.—extension and alterations—Cawood Wharton and Co., Ltd., 75 Crouch Hall Road, Crouch End, N.8.

Oxfordshire: Head Post Office, Oxford—alterations to public offices — T. H. Kingerlee and Sons, Ltd., 35a Queen Street, Oxford.

Warwickshire: Post Office Factory, Fordrough Lane Birmingham, 9 — internal cleaning and decorations—A. Pearce and Sons (Building Contractors), Ltd., Victoria Street, Bordesley Green, Birmingham.

Post Office.—Contracts for duct laying etc., works to the value of £4,000 and over placed during the week ended Jan. 21:

Hugh Brown (Engineers), Ltd., Chart Road, Ashford, Kent; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; Robert Paterson and Sons, Ltd., Milton Street, Airdrie, Lanarkshire.

War Department. — Contracts placed for the week ended Jan. 13:

Hampshire (Winchester): kitchen installation—G. F. E. Bartlett and Son, Ltd., Hemel Hempstead.

Kent (Shorncliffe): building — George Stone (Folkestone), Ltd., Folkestone.

London (S.E.3): building—Herbert Kennard, Ltd., London, S.E.15.

Nottinghamshire (Nottingham): miscellaneous—J. Searson, Ltd., Sutton-in-Ashfield.

Somerset (Yeovil): painting and decorating — Decorative Painting Contractors, Ltd., Hounslow.

Co. Tyrone (Omagh): building—McCann Bros., Omagh.

Worcestershire (North Worcester area): miscellaneous—E. R. R. Tooby and Sons, Ltd. Stourbridge.

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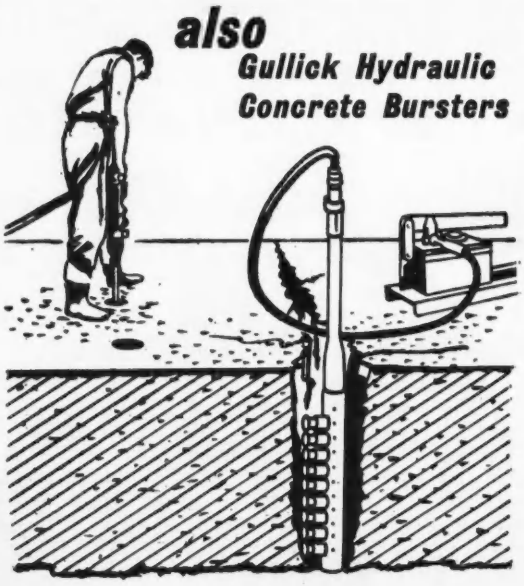

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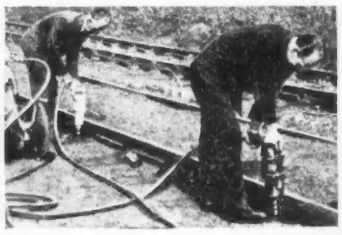
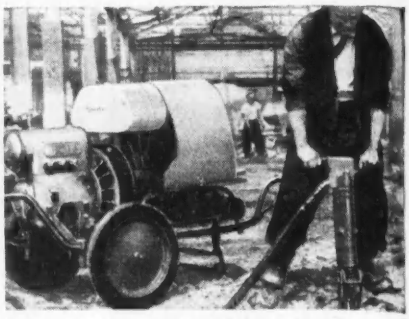


or a heavy concrete breaker



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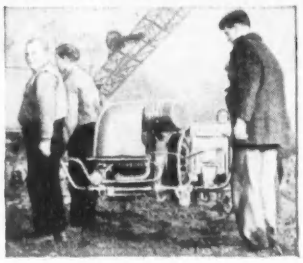

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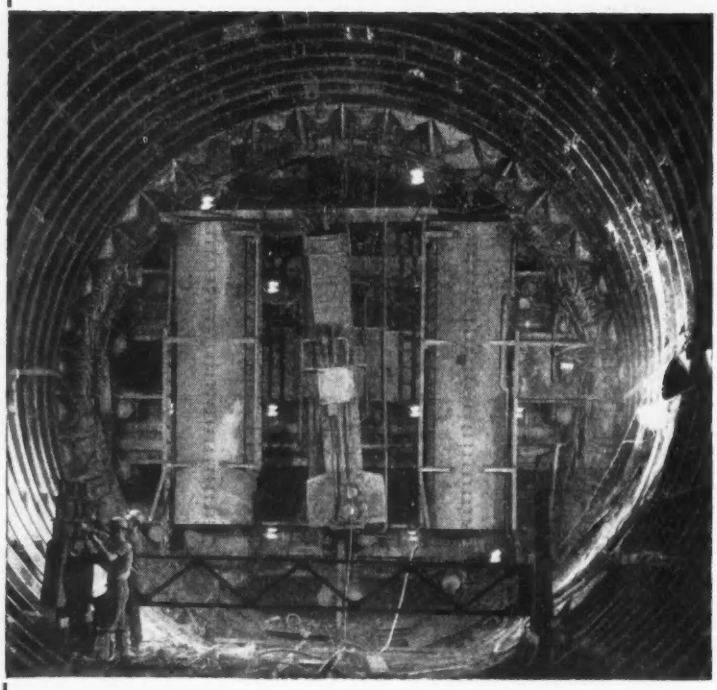

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(Continued from page 548)

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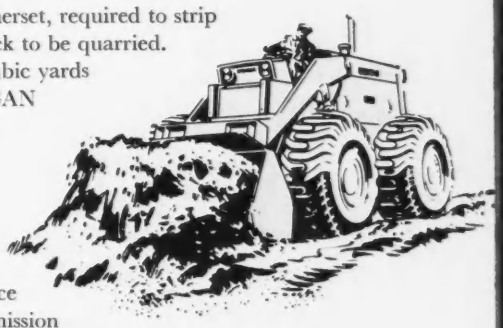

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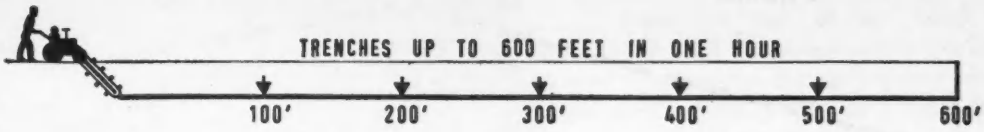

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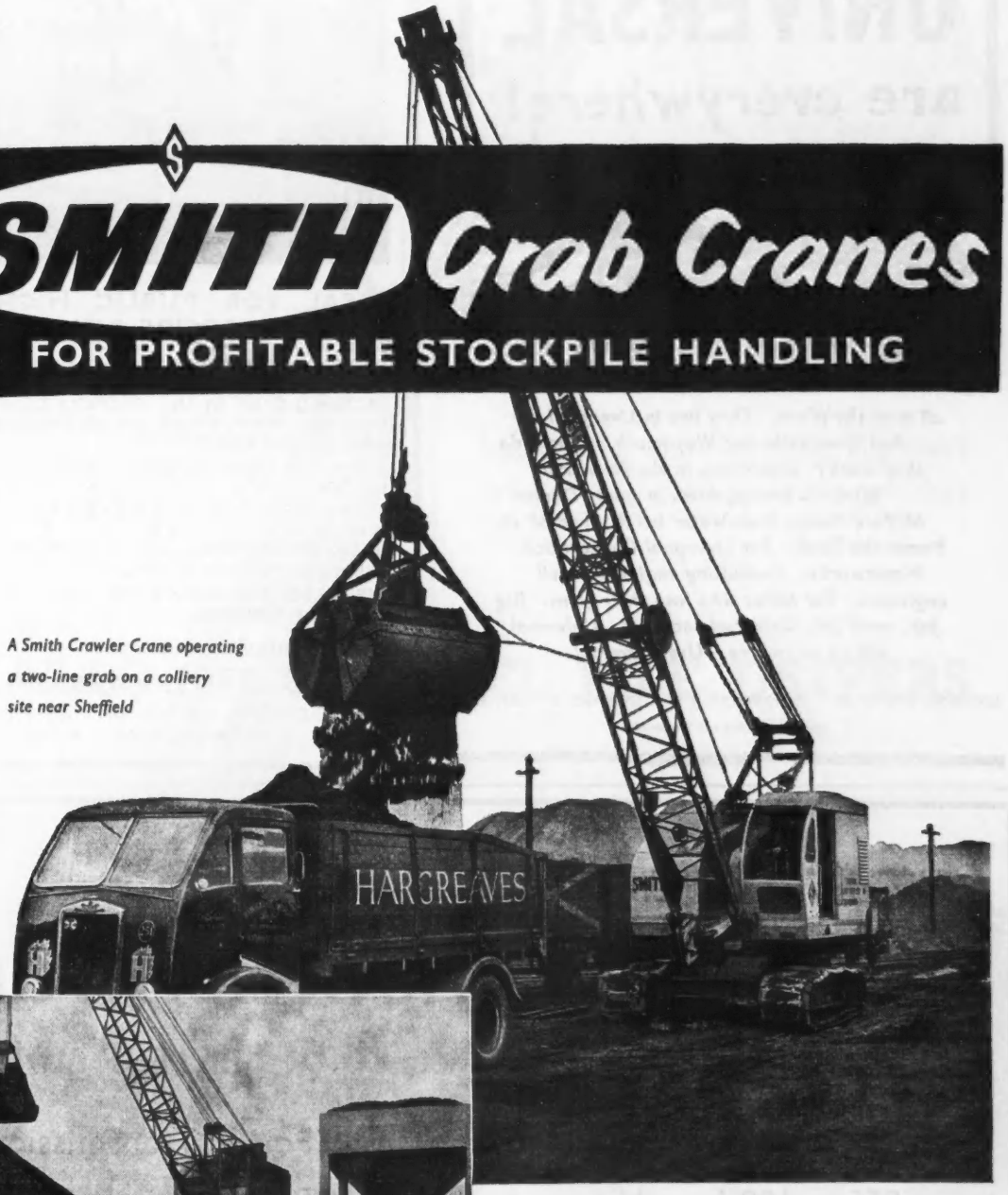

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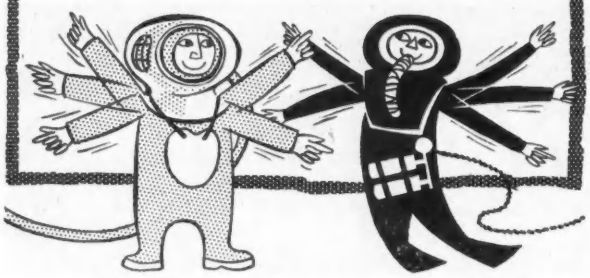

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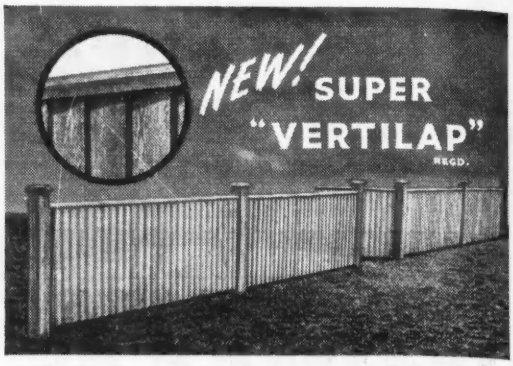

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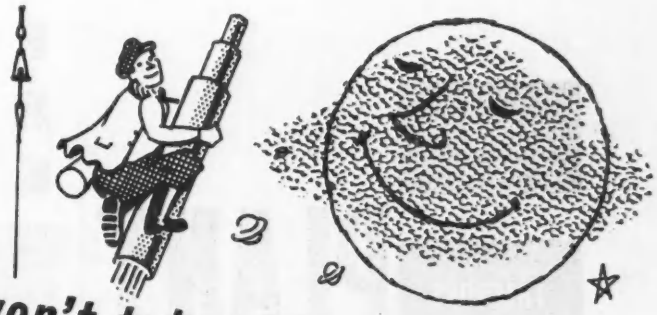

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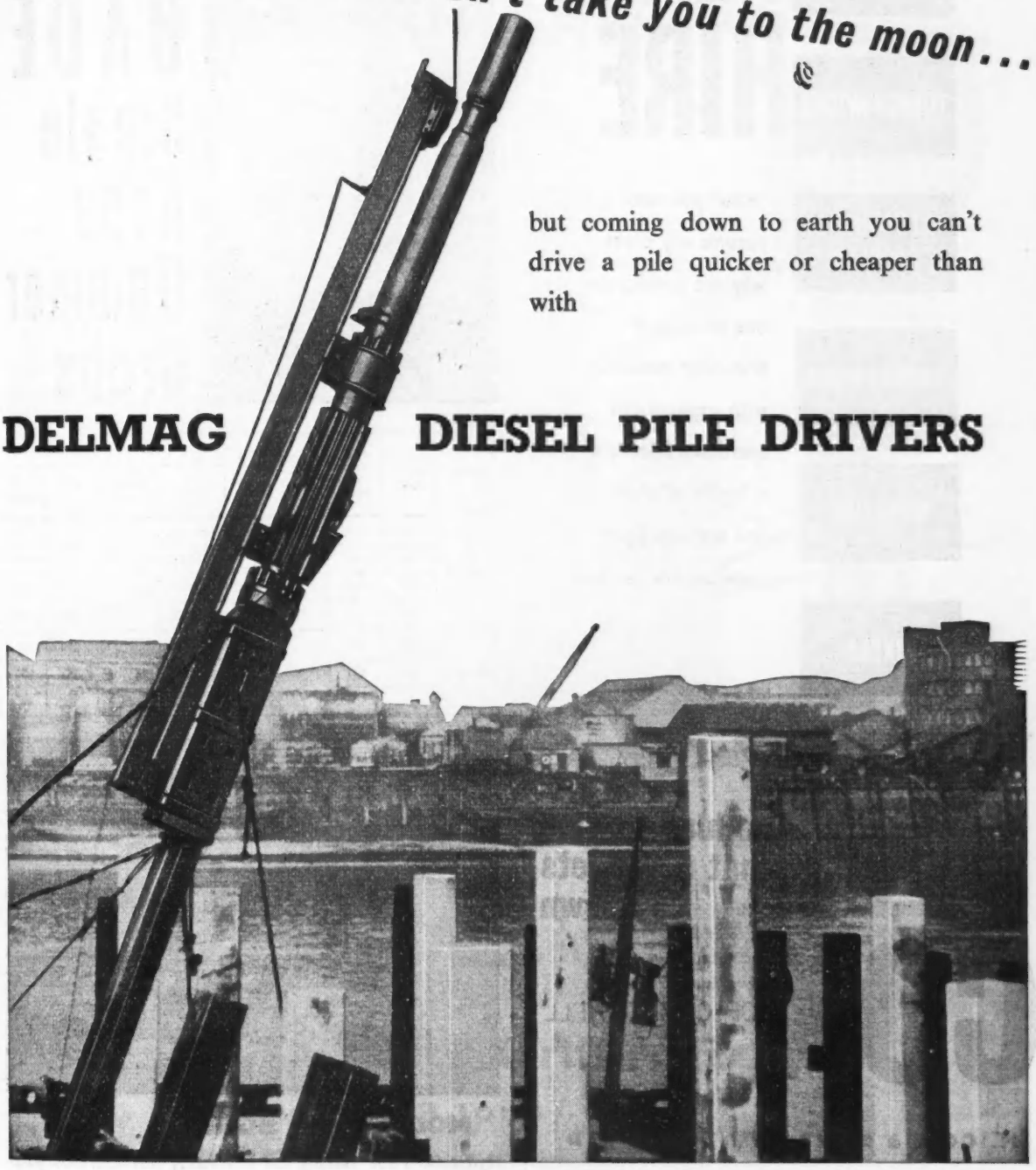

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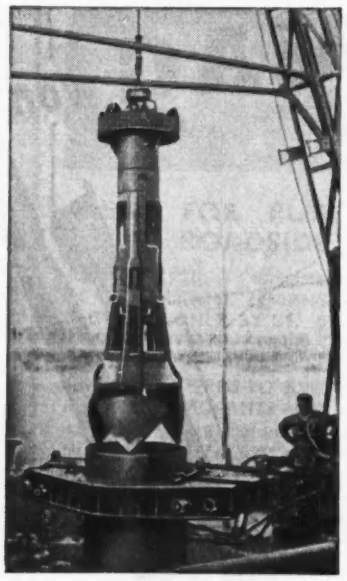

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Model	Cutting dia. of crown	Max. Boring dia. approx.	Number of blades	Dia of guide ring	Weight of Grabs approx.	Weight Hooking crown	Min. dia. of tubes O.D. inch	Min. dia. of tubes I.D. inch
E-32-2	14½"	17½"	3	-	1720lbs.	187lbs.	16½"	15½"
	16½"	20½"		-	1764lbs.		18½"	17½"
	20½"	25½"		18½"	1841lbs.		22½"	21½"
	24½"	29½"		21½"	1962lbs.		26"	24½"
E-43-2	28½"	33½"	3	24½"	2866lbs.	243lbs.	30½"	29½"
	38½"	43½"		32½"	3307lbs.		39½"	38½"
	47½"	59"		43½"	4410lbs.		50"	48"

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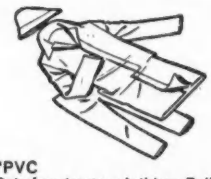

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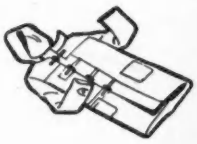

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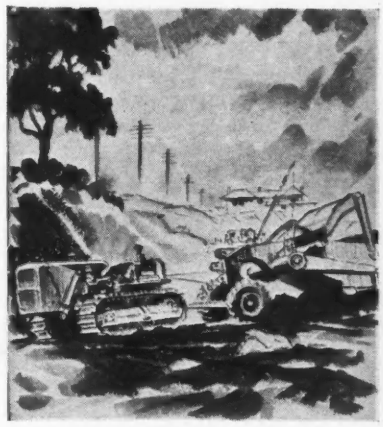
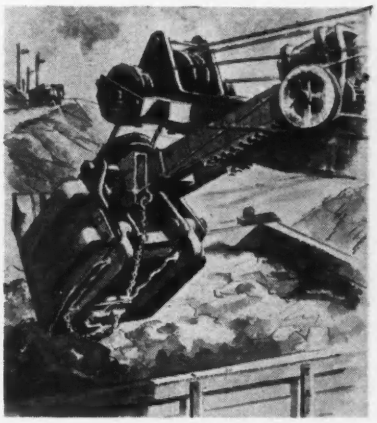
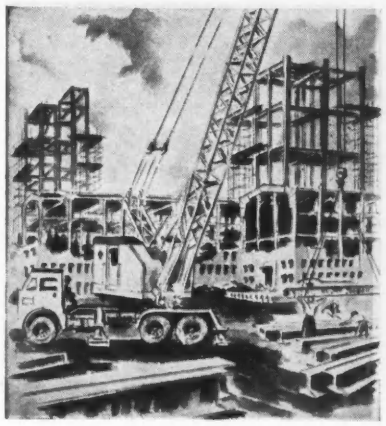

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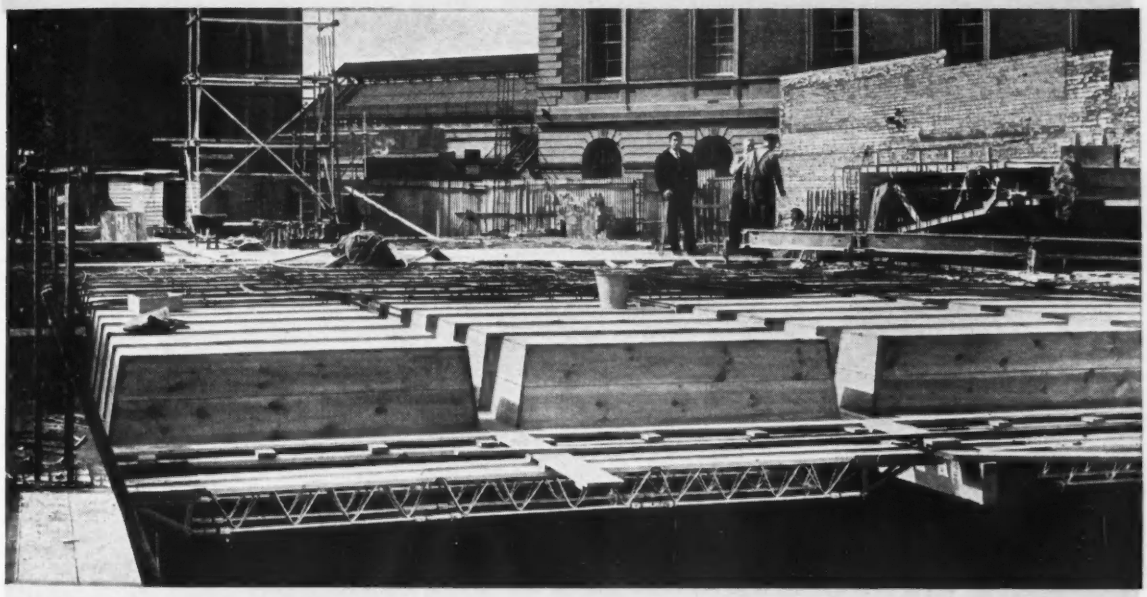

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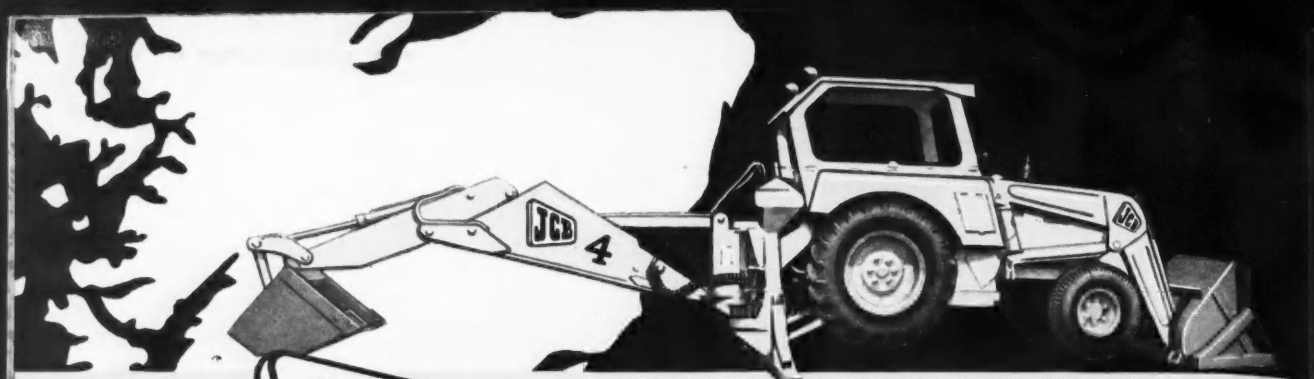

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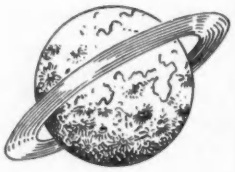

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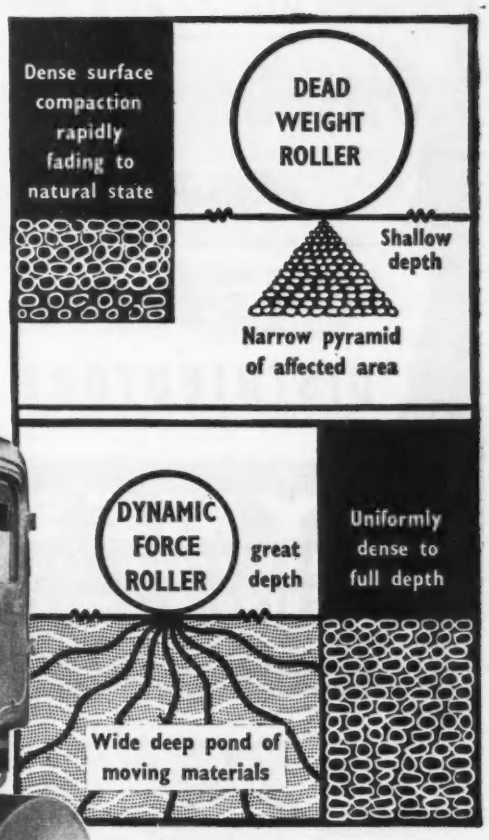

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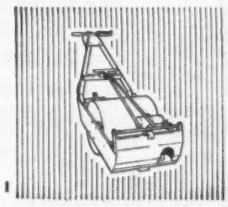
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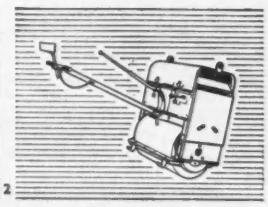
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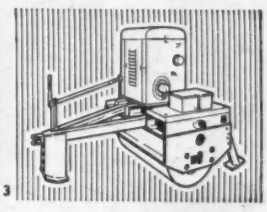
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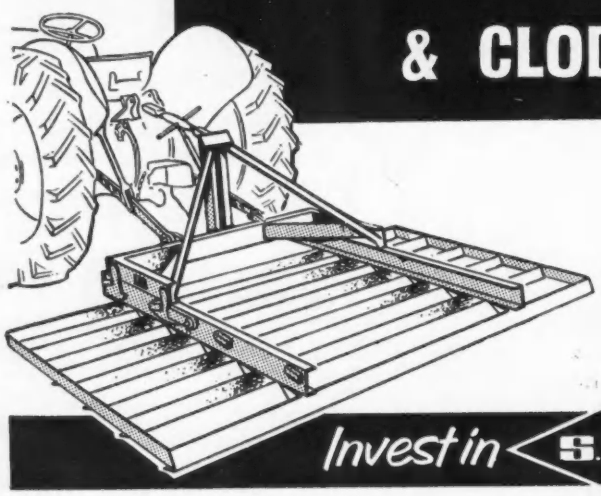

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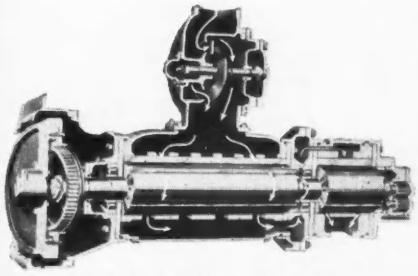

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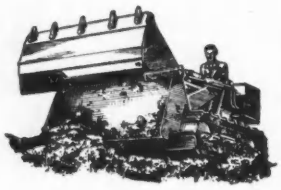

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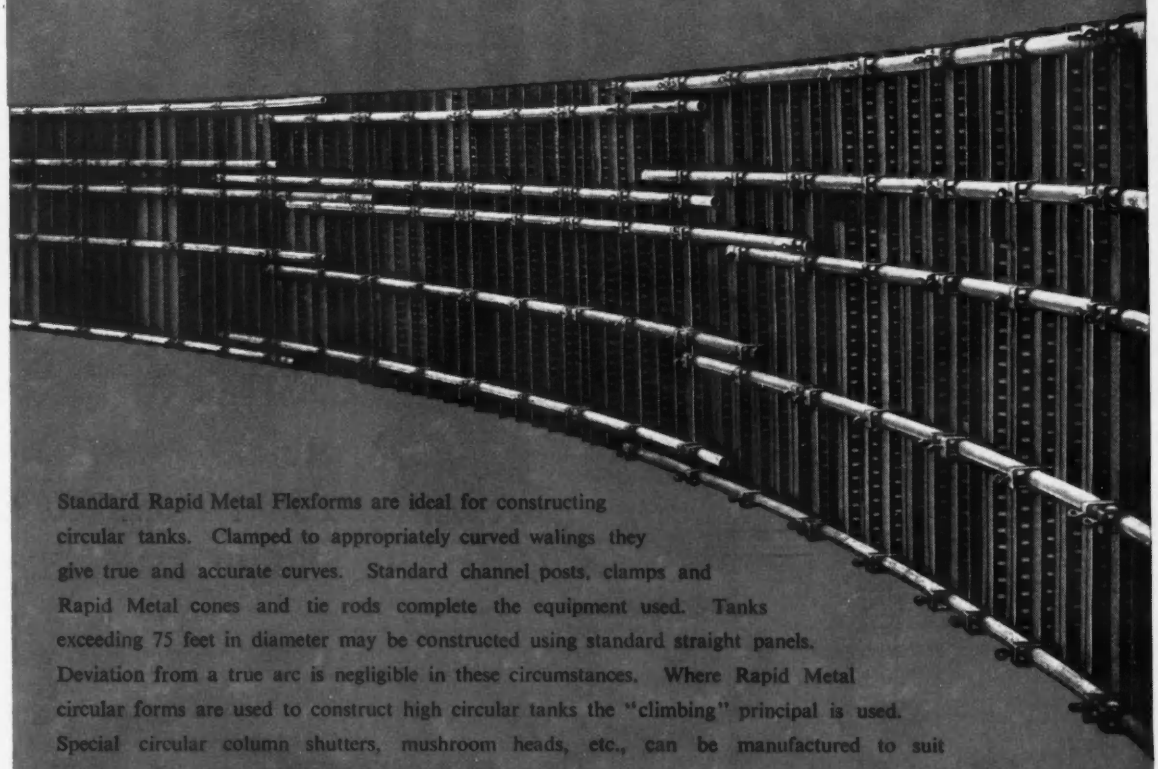

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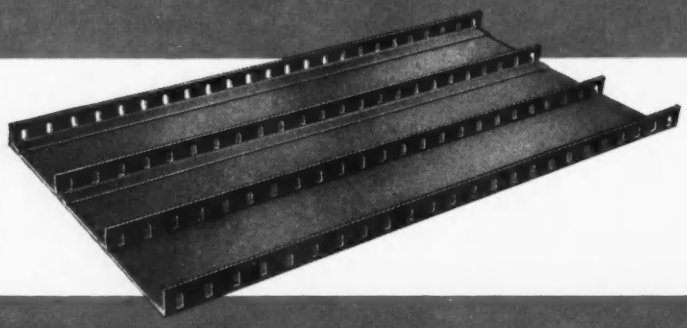

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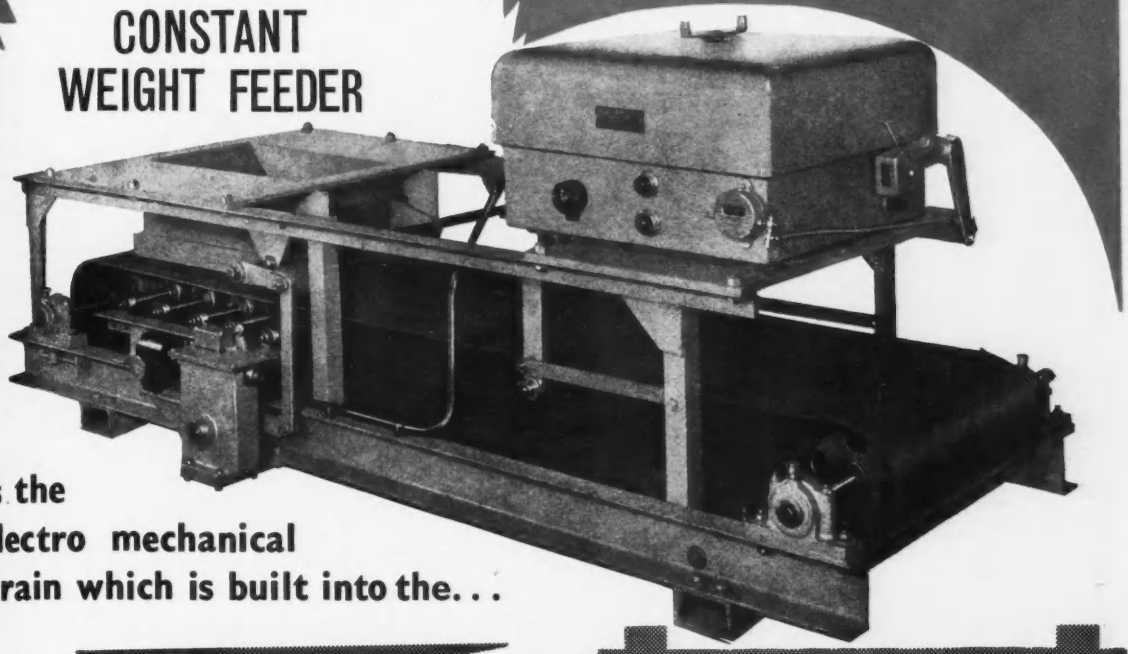

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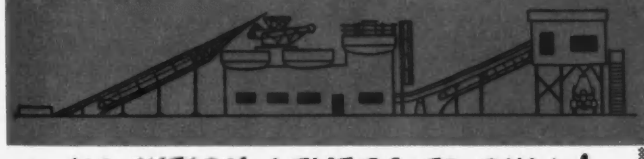

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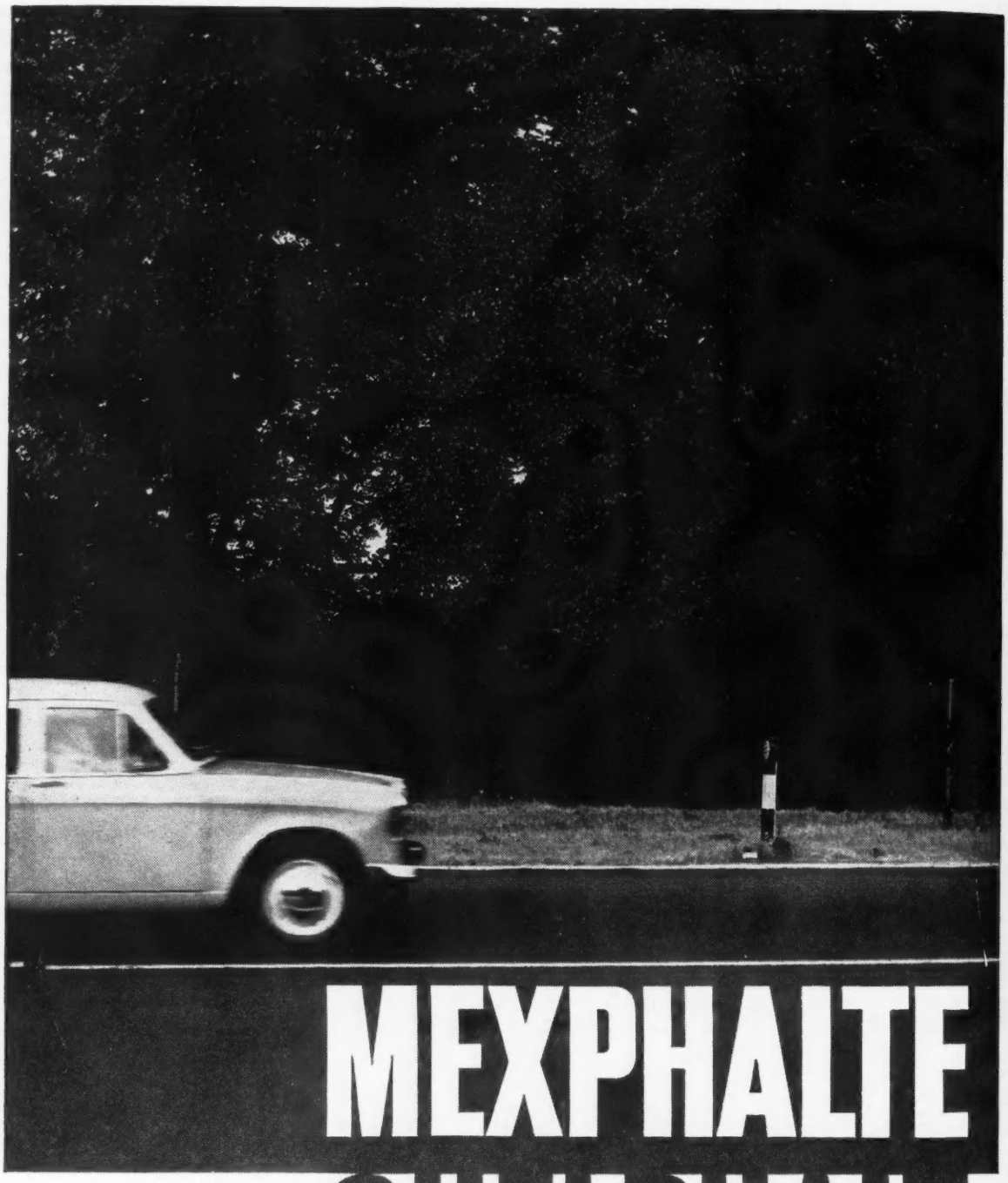

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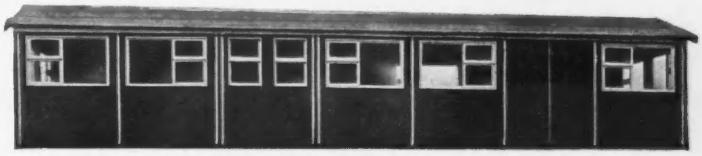

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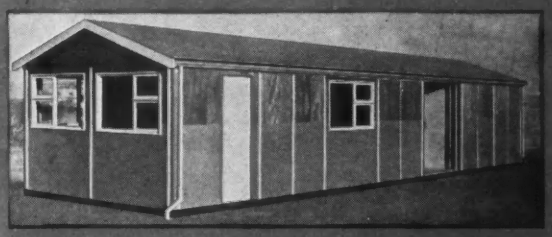

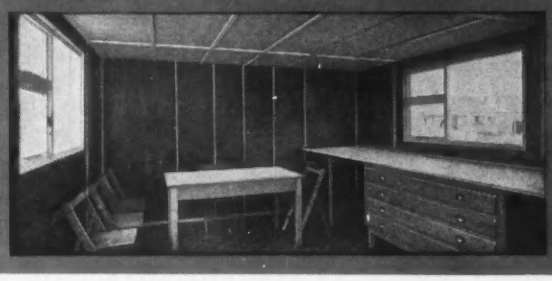

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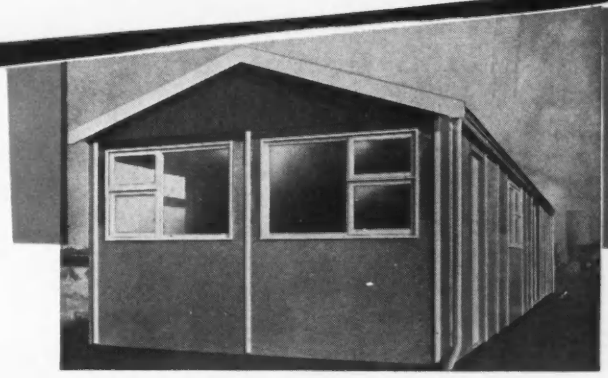

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✻ PRIMARILY, Joy designers developed the side-by-side rotor layout for reasons of accessibility. In the Joy Airvane, both high and low pressure rotors and vanes are readily accessible for inspection and maintenance, simply by removing cover plates Compare this with the lengthy, costly dismantling of oil pumps, end plates, bearings, discharge connection, H.P. rotor and cylinder, splined coupling and housing, all of which must be removed to reach the L.P. end of a tandem rotor arrangement. Rotor location in Joy compressors is by a large capacity precision roller bearing, with a floating roller bearing at the other end to permit axial movement of rotor/stator expansion and contraction. Result? No scoring, no critical bearing positioning, no special shimming.

and two BONUS benefits!

***COMPACTNESS AND REDUCED WEIGHT** are additional advantages in JOY design. Compared with a typical tandem-rotor compressor, the Airvane 365 is almost 200 cu. ft. less in volume – and 1400 lbs. lighter. Even greater weight/space savings result in the Airvane 600 class.*

***JOY ROTARY COMPRESSORS** are fitted with a minimum pressure valve in the discharge system to prevent any possibility of 'hydraulicing' by ensuring that the discharge pressure cannot fall below 40 p. s. i. when running at full load and speed.*

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CONTRACTORS' GUIDE TO AGGREGATES

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FERRERSAND AGGREGATES, LTD., Northampton Rd. Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.

HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night)). (See Cambs.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Leighton Buzzard, Bedford. Building sands.

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BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8, or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. and L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggin.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., & CO., LTD., 261a Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Cardiff Road, Reading. (Tel. 50458.) Pits at Theale. (Tel.: Theale 373.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, buildozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

BUCKINGHAMSHIRE

ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., & CO., LTD., 261a Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DRINKWATER, W. W., (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455), and Coronation Road, High Wycombe (Tel. 4360/1), and at Gerrards Cross. Pits at Wraysbury (Middx.), and Iver (Bucks.).

HARTIGAN, G. F. X., LTD., High Street, Newport Pagnell. (Tel. 126.) Graded and single-sized gravel aggregates to B.S.S. Pits at Newport Pagnell and Broughton, adjoining M.1 flyover.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, buildozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

CAMBRIDGESHIRE

DICKERSON, M. (CONTRACTORS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) All grades washed sand and gravel, reject stone, hoggin, clinker, crushed granite, crushed and graded concrete hardcore, brick rubble, ready-mixed concrete (all grades).

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: Cambridge 59966, 53969, 50353 (night).) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggin, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

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NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

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TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

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WILLIAMS, C. F., LTD., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building sand and concrete sand. Bulk sand and gravel filling a speciality.

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PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 3335/6.) Gwithian Works, near Hayle. Pure silica gravel and grit, concreting building, plastering and asphalting sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

ESK MANUFACTURING CO., LTD., Calsil Brickworks, Brisco, Carlisle. (Tel.: Carlisle 2-4941.) Sand lime bricks (common and coloured facings). Ex Brisco. Concreting aggregates ex Longtown Works (Tel. 365).

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SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

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BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes: coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brailsford 316.) And at Willington. (Tel.: Repton 3215.)

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KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

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DERBYSHIRE

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DORSET

BULL BROS., S. and L., LTD., 126A High Street, Winchester (Tel. 2264). (See Hampshire.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.

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MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

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ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore ashes and bricks.

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BUCBRICKS COMPANY, LTD., Sand and Ballast Pits, Martells, Ardleigh, Colchester. (Tel.: Ardleigh 310.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.

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FERRIS PITS, LTD., The Limes Garage, Fencepiece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered; also hardcore and ashes.

HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Upminster, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

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LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.

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PINCH, L. A. AND A., LTD., Upper Rainham Road, Elm Park, Hornchurch, Essex. (Tel.: Hornchurch 48912/3/4.) Haulage, all aggregates and excavation.

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STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

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BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F., (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc.

CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

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GRIFFITHS, A., AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 3135 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, road-stones, and Dolomitic media.

TAYMAC, LTD., Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391—5 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

Rates for insertion in this GUIDE will be forwarded on application

CONSIDER THE ADVANTAGES OF JOY AIRVANE'S ROTOR ARRANGEMENT

KEY

1. *Helical Gear Drive Between Rotors*
2. *Integral single piece Cast Block*
3. *Total Closure Inlet Valve*
4. *Removable Cover Plates*
5. *Smooth Air Flow*
6. *Positive Displacement Oil Pump*
7. *Side-by-side Rotors*
8. *Positioning Bearings*

✻ PRIMARILY, Joy designers developed the side-by-side rotor layout for reasons of accessibility. In the Joy Airvane, both high and low pressure rotors and vanes are readily accessible for inspection and maintenance, simply by removing cover plates Compare this with the lengthy, costly dismantling of oil pumps, end plates, bearings, discharge connection, H.P. rotor and cylinder, splined coupling and housing, all of which must be removed to reach the L.P. end of a tandem rotor arrangement. Rotor location in Joy compressors is by a large capacity precision roller bearing, with a floating roller bearing at the other end to permit axial movement of rotor/stator expansion and contraction. Result? No scoring, no critical bearing positioning, no special shimming.

and two BONUS benefits!

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DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRERSAND AGGREGATES, LTD., Northampton Rd. Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.

HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night)). (See Cambs.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Leighton Buzzard, Bedford. Building sands.

BERKSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8, or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. and L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggin.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., & CO., LTD., 261a Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Cardiff Road, Reading. (Tel. 50458.) Pits at Theale. (Tel.: Theale 373.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

BUCKINGHAMSHIRE

ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., & CO., LTD., 261a Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DRINKWATER, W. W., (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455), and Coronation Road, High Wycombe (Tel. 4360/1), and at Gerrards Cross. Pits at Wraysbury (Middx.), and Iver (Bucks.).

HARTIGAN, G. F. X., LTD., High Street, Newport Pagnell. (Tel. 126.) Graded and single-sized gravel aggregates to B.S.S. Pits at Newport Pagnell and Broughton, adjoining M.1 flyover.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARLOW SAND AND GRAVEL CO., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

CAMBRIDGESHIRE

DICKERSON, M. (CONTRACTORS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) All grades washed sand and gravel, reject stone, hoggin, clinker, crushed granite, crushed and graded concrete hardcore, brick rubble, ready-mixed concrete (all grades).

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: Cambridge 59966, 53969, 50353 (night).) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggin, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) (For details, see Staffs.)

WILLIAMS, C. F., LTD., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building sand and concrete sand. Bulk sand and gravel filling a speciality.

CORNWALL

PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 3335/6.) Gwithian Works, near Hayle. Pure silica gravel and grit, concreting building, plastering and asphalting sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

ESK MANUFACTURING CO., LTD., Calsil Brickworks, Brisco, Carlisle. (Tel.: Carlisle 2-4941.) Sand lime bricks (common and coloured facings). Ex Brisco. Concreting aggregates ex Longtown Works (Tel. 365).

DENBIGHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

DERBYSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes: coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brailsford 316.) And at Willington. (Tel.: Repton 3215.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

SALISBURY AND WOOD, LTD., Matlock (Tel. 272/273). Limestone and granite, dry or coated gravel and sand, kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone, lightweight aggregates, ashes, red shale.

DERBYSHIRE

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) (For details, see Staffs.)

DORSET

BULL BROS., S. and L., LTD., 126A High Street, Winchester (Tel. 2264). (See Hampshire.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.

HALL AND CO., LTD., 8 Commercial Road, Parkstone. (Tel.: 5379.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore ashes and bricks.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. Tel.: Coalville 1226/7/8, or London: VIGilant 2530.) (For details, see Leics.)

BUCBRICKS COMPANY, LTD., Sand and Ballast Pits, Martells, Ardleigh, Colchester. (Tel.: Ardleigh 310.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRIS PITS, LTD., The Limes Garage, Fencepiece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered; also hardcore and ashes.

HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Upminster, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HUNNABLE, F. A., AND SON, LTD., Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, ¼in. to rejects; washed concreting sand and washed soft building sand. Classified sand for asphalt. Ready mixed concrete to all grades. Pits at Braintree, Bocking, Bearley End, Hedingham and Alphamstone.

LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78244—5 lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.

PETERS AND BARHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand Pits at Ashelidham, Chignall St. James, Dagenham, Great Waltham, North Ockendon, Roxwell, West Thurrock.

PINCH, L. A. AND A., LTD., Upper Rainham Road, Elm Park, Hornchurch, Essex. (Tel.: Hornchurch 48912/3/4.) Haulage, all aggregates and excavation.

READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel. St. Ives 2441/2/3/4 and Halstead 2323.) Pits at St. Ives and Gosfield, near Halstead.

STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

GLOUCESTERSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F., (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc.

CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

FLOYD AGAR AND CO., LTD., Sherston, Malmesbury, Wilts. (Tel.: Sherston 237.) Cotswold building stone, hardcore, etc. (Details under Wiltshire.)

GRIFFITHS, A., AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 3135 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, road-stones, and Dolomitic media.

TAYMAC, LTD., Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391—5 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

Rates for insertion in this GUIDE will be forwarded on application

CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Fawley. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sand and graded aggregates, path and road gravels, hogging, clinker, ashes. (Tel.: Emsworth 2271.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

TWICKENHAM GRAVEL CO., LTD., Ship Lane, Farnborough (Tel. 1126); Sandhurst Road, Yateley (Tel. 2230).

WESSEX SAND AND GRAVEL CO., 126 Hillside Avenue, Southampton. (Tel. 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

HEREFORDSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop (Cleehillstone 284). (See Shrops.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington (Tel. 421.) Granite and limestone aggregates coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddesdon 2456.) Producers and distributors of all grades of washed aggregates.

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel. 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, roadstones, and Dolomitic media.

TWICKENHAM GRAVEL CO., LTD., Eleanor Cross Road, Waltham Cross. (Tel. 23388.)

WEBB, G., CAMBRIDGE, 35 Magrath Av., Cambridge. (Tel. 59966, 53969, 50353 (night.) (See Cambs.)

WINFIELD HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

HUNTINGDONSHIRE

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night)). (See Cambs.)

KENT

BRASTED SAND PITS, Brasted, Kent (Tel. 586). London Office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hoggin, hardcore, clinker, chalk, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners, tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines).

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051); and at Folkestone and Hayes. Pits at Lunsford, near Larkfield, Riverhead. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385). (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, near Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
(Tel.: Sefton Park 7261.)
Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs (Tel.: Hales 261/2/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—VIGilant 2530.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 20891.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 20891.) Quarries at Mountsorrel, near Loughborough. ¼in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pit—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand, transit mixed concrete.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castledyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

GIBBONS, F. B., AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and aggregates.

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, 'phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BUCBRICKS COMPANY, LTD., 57 Piazza Chambers, Covent Garden, London, W.C.2. (Tel.: Covent Garden 0534.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.

COX, H., AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 2215—3 lines.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Doddinghill Lane, Willesden, N.W.10. (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.

HALL AND CO., LTD., Chantrey House, Eccleston Street, Chelsea, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

HARTIGAN, G. F. X., LTD. Washed sharp sand to B.S.S. 882. (See Buckinghamshire.)

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.

GRUNDON, S., 100/104 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 36511/2/3.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford. Pits: Bedfont and Shepperton. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

TWICKENHAM GRAVEL CO., LTD., Feltham Hill Road, Hanworth. (Tel.: Feltham 2638.)

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9 (Tel.: Shoreditch 9128/9.) and Fairlop Airfield, Forest Road, Ilford (Tel.: Hainault 6111/2).

STUART MACEY, LTD., Gordon Rd., High Wycombe. (Tel.: High Wycombe 2591/2.)

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Cheapstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.).

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9). (See Gloucestershire.)

MONTGOMERYSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8: or London: VIGilant 2530.) (For details, see Leics.)

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Coney Weston 12.) Pits at St. Ives and Knettishall, near Thetford.

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Snetterton. Concrete aggregates, building sand.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8: or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345). All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northamoton. (Tel.: Brixworth 278 and 298: Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northamoton. (Tel.: Northamoton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone: dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ENSTON BROS., Llwyn Isaf Quarry, Clynnogfawr, Caernarvon. (Tel.: Clynnogfawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD. (a member of the Lunt, Comley and Pitt Group), Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., Gazette Buildings, 168 Corporation Street, Birmingham (Tel.: Central 7408), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—8 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

AIZLEWOOD, DOUGLAS E., Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone: all grades of washed gravel and sands.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8: or London: VIGilant 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel: could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357: and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme Pierrepont, Colwick, Bleasby and Newark. Other quarries throughout the country—deliveries in 21 counties. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Combined plant capacity 20,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove St., New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8: or London: VIGilant 2530.) (For details, see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone hardcore, etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DUSTON STONE QUARRIES, LTD., New Duston, Northamoton. (Tel.: Brixworth 278 and 298: Duston 505.) (See Northamptonshire.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HALL AND CO., LTD., Cardiff Road, Reading. (Tel. 50458.)

HAINES, H., (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Roadstone, Cotswold building and walling stone.

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop (Cleehillstone 284). (See Shrops.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

RUTLAND

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

RUTLAND

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes: coated limestone to B.S. 802 and 1621 and wetmix: large output: reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop. (Tel.: Cleehillstone 284.) Granite stone, tarmac, chippings, filter media, setts, limestone, crushed and walling stone, gravel, sand, hardcore and ashes.

DORRINGTON SAND AND GRAVEL QUARRIES, near Shrewsbury. (Tel.: Dorrington 276.) Supplies of ready mixed concrete, building sand, washed sand, washed and crushed gravel.

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel: Hales 261/2/3.) (See Staffordshire for dets.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

DANGERFIELD, F. J., & CO., LTD., 216A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

HALL AND CO., LTD., 34 High Street, Narberth. (Tel. 74.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel.: Bridgend 3786.) Coated stone also available.

SESSIONS AND SONS, LTD., West Dock, Cardiff, owners: flag, hardcore, ashes, filling, graded and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel.: Swansea 53071.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners slag, hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes: coated limestone to B.S. 802 and 1621 and wetmix: large output: reliable deliveries.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8: or London: VIGilant 2530.) (For details, see Leics.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity 2,000 tons per day.

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6061).

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggin.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) Graded limestone for all purposes. Ground limestone.

WINDMILL SAND AND GRAVEL QUARRIES, LTD., Cannock Road, Wolverhampton. (Tel. 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand: also hoggin.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DICKERSON, M. (CONTRACTORS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) (See Cambs.)

HALL AND CO., LTD., West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

MACLAREN BROS. (KENNETT), LTD., Station Road, Kennett, Cambs. (Kentford 333/4.) (See Cambs.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4, Coney Weston 12 and Halstead 2323.) Pits at St. Ives, Knettishall, near Thetford, and Gosfield, near Halstead.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)

WEBB, G., CAMBRIDGE, 35 Magrath Av., Cambridge. (Tel.: 59966, 53969, 50353 (night)). (See Cambs.)

SURREY

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Longside Sand and Ballast Pit, Thorpe, nr. Egham. (Tel.: Egham 3121.) Runfold Sand and Ballast Pit, Runfold, nr. Farnham, Surrey. (Tel.: Runfold 2020.) Producers and distributors of all grades of washed aggregates.

HALL AND CO., LTD., Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Redhill. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Kingston Road, Leatherhead, Surrey. (Tel.: 3497.) (See Sussex.)

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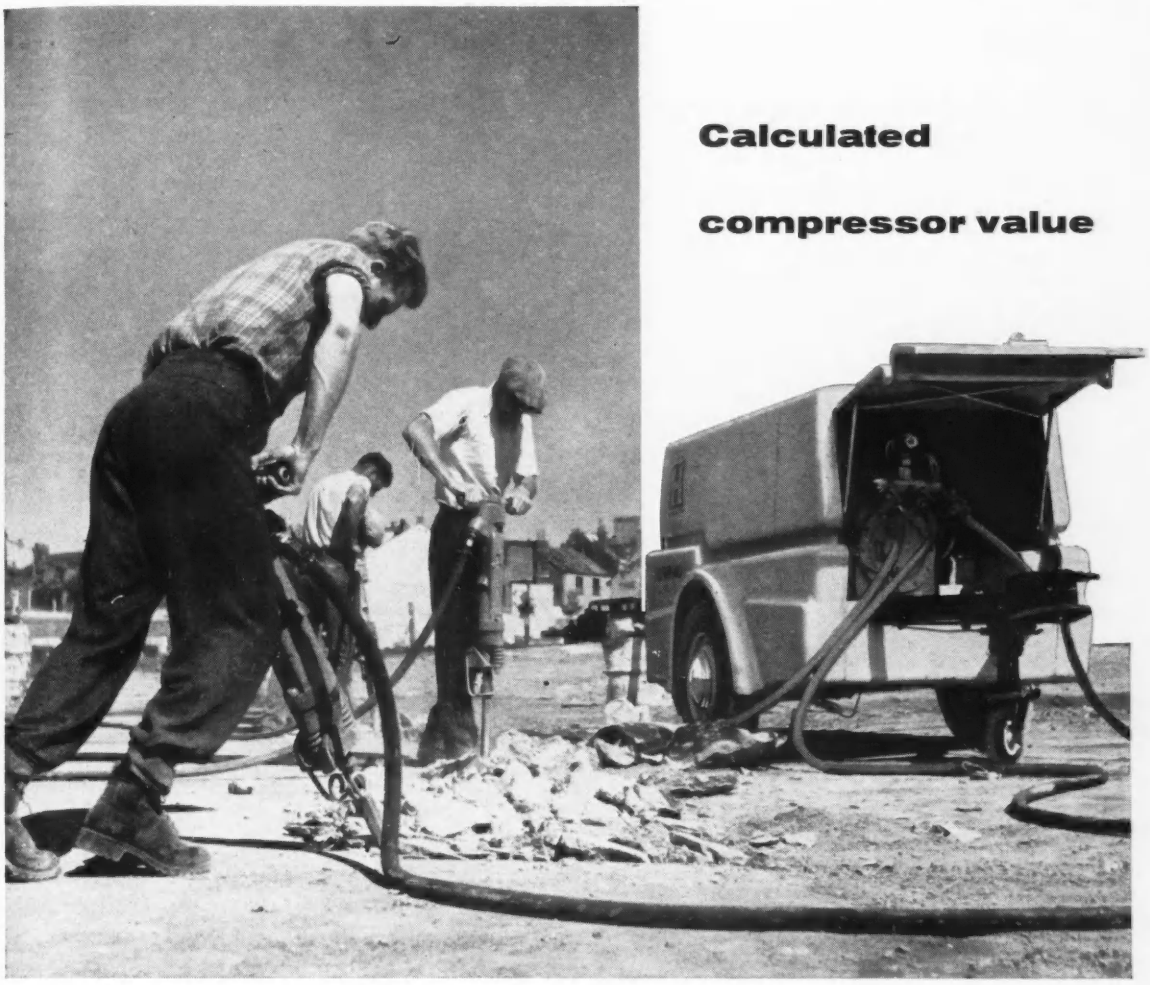

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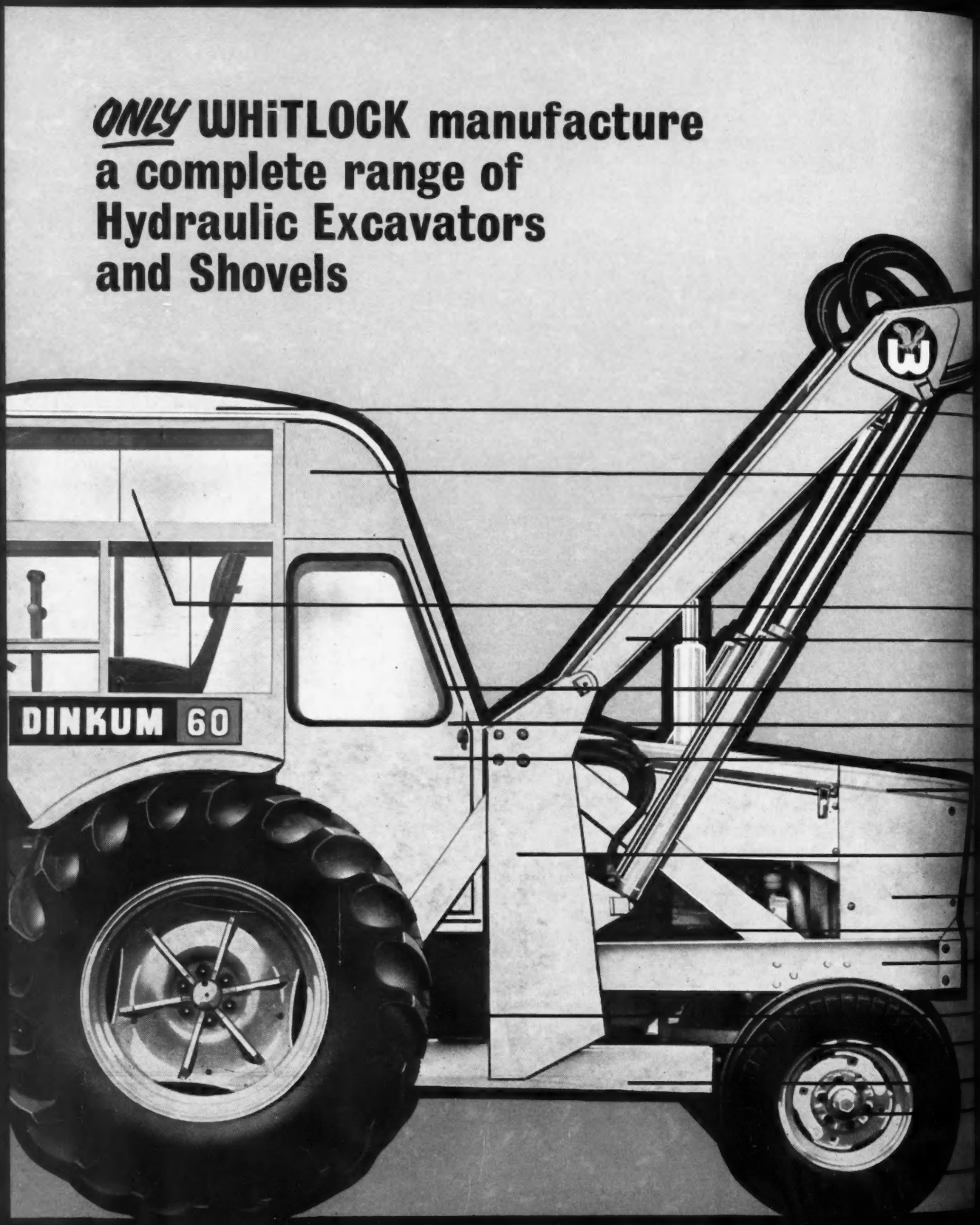

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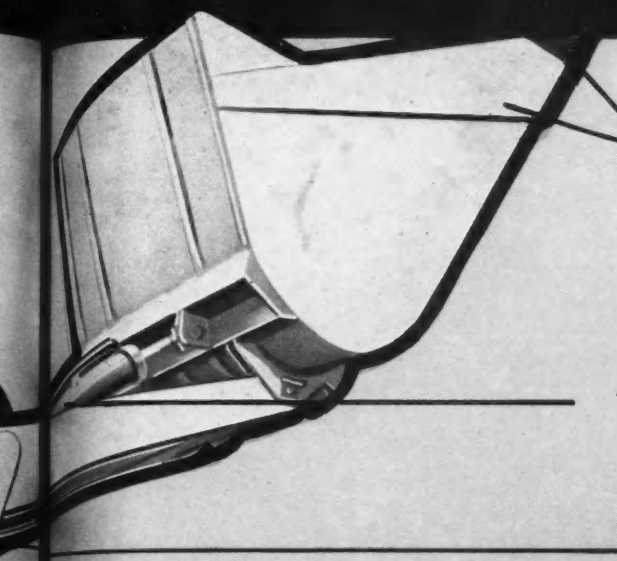

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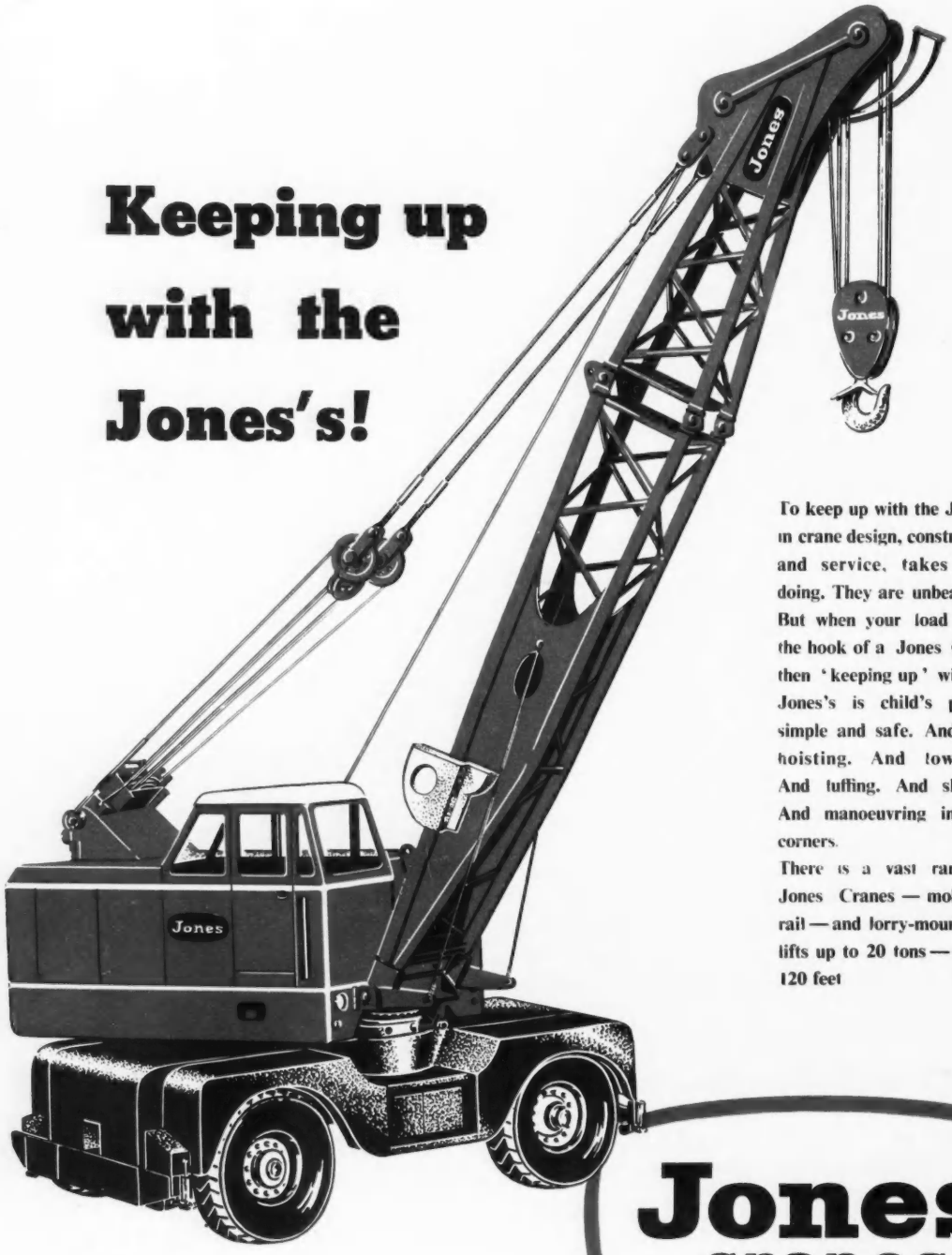

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